CHEMISTS' EXHIBITION.

W. J. BUSH & CO.

Cordially invite all Chemists to inspect their unique collection of Pharmacopœia Essential Oils, &c.

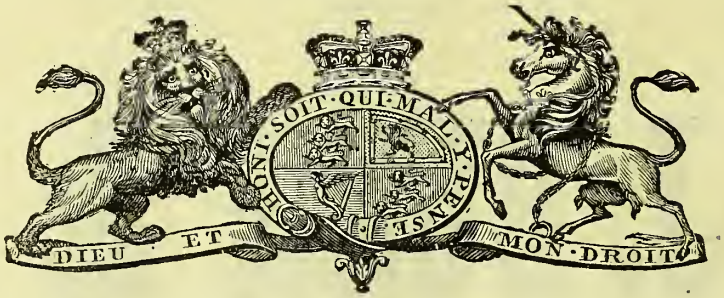
Their Exhibit is situated Block 1 (Right of Arcade Entrance).

18 ARTILLERY LANE, LONDON

IDRIS TABLE WATERS

The PUREST and the BEST.

Purveyors of Table Waters by Royal Warrant



of Appointment to Her Majesty the Queen.

IDRIS SODA WATER. Brilliant, Pungent, and Sparkling.
IDRIS POTASH WATER. Prepared according to the British Pharmacopœia.
IDRIS SELTZER WATER. Pure and Delicious Table Water.
IDRIS LITHIA WATER. Of Guaranteed Strength.
IDRIS GINGER BEER. Aerated or Brewed.
IDRIS GINGER ALE. A remarkably grateful Aromatic Beverage, particularly suitable for meals, improving the appetite and aiding the digestion.
IDRIS LEMONADE. Pure, fruity flavour of ripe lemons.
IDRIS ORANGE CHAMPAGNE. Made from the fruit.
IDRIS HOP ALE. Non-Alcoholic.
IDRIS QUININE TONIC WATER. A refreshing tonic.
IDRIS OLYMPIA WATER. A Carbonated Distilled Water. [2]

IDRIS LIME JUICE CORDIAL.
IDRIS PURE LIME JUICE.
IDRIS LIMETTA.
IDRIS PALATABLE LIME JUICE.
IDRIS FRUIT CORDIALS. (20 varieties.)

IDRIS TABLE WATERS IN SYPHONS AND BOTTLES.

IDRIS & COMPANY,

PRATT STREET, CAMDEN TOWN.

IDRIS & CO. are exhibiting at the CHEMISTS' EXHIBITION, to be held at the AGRICULTURAL HALL from April 22nd to 29th, and will be pleased to see their friends at their Stand, No. 52.

NO LICENCES ARE REQUIRED
FOR THE SALE OF

MASON'S ORIGINAL
EXTRACT OF HERBS
AND
WINE ESSENCES.

SEE LETTERS BELOW FROM INLAND REVENUE AUTHORITIES.

The following is an extract from a letter written by Mr. C. Forsey, Secretary to the Inland Revenue, to Messrs. Green & Williams, Solicitors, Nottingham :—

"I have laid before the Board of Inland Revenue your letters, and in reply I am desired to state that a sample of the Extract of Herbs manufactured by Messrs. Newball & Mason, having been analysed at the Laboratory at this Office, has been found to contain no spirit, and an Excise Licence is not therefore required for the sale of such a preparation."

"Inland Revenue Office, Nottingham.

"I beg to inform you that the samples of your Wine Essences, which I purchased from you for analysis, contained under 3 per cent. of proof spirit; and that, so long as that percentage is not exceeded, licences will not be required."

We are showing a full line of our Extracts and Wine Essences at Stall No. 57, Agricultural Hall.

SOLE INVENTORS AND MANUFACTURERS—

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CHEMISTS' AERATED MINERAL WATERS ASSOCIATION LIMITED.

Invite all Chemists to visit their Stand, No. 56 (nearly opposite Main Entrance), at the

CHEMISTS' & DRUGGISTS' EXHIBITION, AGRICULTURAL HALL,

APRIL 22, 24, 25, 26, 27, 28, 29, 1893.

GLASS BOTTLES.

BEFORE PLACING THEIR ORDERS, BUYERS ARE INVITED TO INSPECT

E. YOULDON'S STAND, No. 6,

AT THE

CHEMISTS' AND DRUGGISTS' EXHIBITION (NEAR MAIN ENTRANCE).

E. YOULDON, East London Glass Bottle Warehouse,

36, 38, and 40 GREAT GARDEN STREET, LONDON, E.

HATRICK & CO., LIM., 31 SNOW HILL, LONDON.

STAND "D"

AT THE

CHEMISTS'

AND

DRUGGISTS'

EXHIBITION.

Visitors are invited to inspect our Exhibit.

WELLS & RICHARDSON COY.'S

Diamond Dyes. Paints. Marking Ink. Improved Butter Color. Golden Extract of Annatto. Lactated Food. Kidney Wort. (Paine's) Celery Compound, &c.

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LUCILLINE (Pure Petroleum Jelly).

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Surgical Instrument Specialities. Levis s Patent Metallic Splints. Hospital Supplies. Physicians' Supplies. Druggists' Sundries. Absorbent Cottons, Bandages, &c.

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Improved Soft Gelatine Capsules. Improved Hard Gelatine Capsules (FOR EXPORT).

HINKSMAN'S Asthma Reliever.

ROBERTSON'S Highland Sheep Dips & Carbolic Soft Soaps.

OF ALL WHOLESALE HOUSES.

PRICE LIST AND SAMPLES FREE ON APPLICATION.

6

TO WHOLESALE BUYERS & SHIPPERS

Chemists' & Druggists' Exhibition,

AGRICULTURAL HALL, ISLINGTON, LONDON, N., APRIL 22 TO 29, 1893.

SPECIMENS OF

THOMAS TYRER & Co.'S

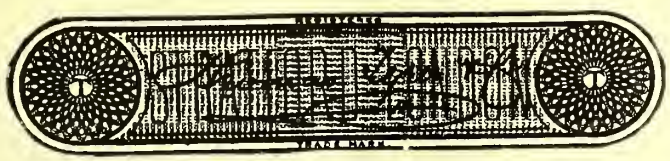
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CHEMICALS

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Director of Laboratories - THOMAS TYRER, F.I.C., F.C.S., &c.
Assisted by his Son - - CHARLES T. TYRER, F.C.S.

CHEMISTS' EXHIBITION,

AGRICULTURAL HALL.

Of course everyone will go, but be sure not to leave without visiting

SHIRLEY BROS.'

STAND, No. 23.

It is on the left-hand side of the hall, close to the entrance from Upper Street.

Faulding's Pure Eucalyptus Oil, in bulk and in bottles, will be also on view at our stand.

SHIRLEY BROTHERS, 105 Whitecross St., E.C.

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DEC. SARSA. JAM. CO. CONC.

COMPOSITION ESSENCE.

HERB BEER EXTRACT.

LIQ. KAVA CO. CUM SANTAL.

LIQ. SANTAL. FLAV. CO.

Medicinal **HERBS** In Packets.

Each with full description, directions for use, recipes, &c. . . .

BEST QUALITY ONLY.

Herbs in Packets.

(Winged Lion Brand.)

HERBAL SMOKING MIXTURE
In 1d. and 2d. Packets.

HOP TONIC PACKETS
TONIC HERBS
For making Botanic Beer.

Cough & Lung Herbs
AND VARIOUS
COMPOUND HERBAL PACKETS.

Dr. Thompson's DANDELION COFFEE.
In 6d. and 1/- Tins.

Not adulterated with Chicory or ordinary Coffee. Composed entirely of English Dandelion Root. Exerts a marked effect on the Liver, and is invaluable to dyspeptics as a substitute for Tea, &c.

PACKED ON ½-gross Cards OR IN 2-gross Cases.

Hundreds of grosses sold by Chemists throughout Great Britain.

OUR BRAND A GUARANTEE FOR FINEST QUALITY AND GENUINE SEED.

Seeds in Packets.

(Winged Lion Brand.)

IN PENNY PACKETS, 6s. per Gross.

Try a small Sample Order. The Season continues to end of May for Hardy Annuals.

ATTRACTIVE PRINTED MATTER WITH ALL ORDERS.

CHEMISTS' AND DRUGGISTS'
AND ALLIED TRADES
EXHIBITION
Agricultural Hall, Islington.
APRIL 22nd to 29th.

SPECIALITIES:
THE "DATURA" ASTHMA CURE
IN 1/- TINS.
POTTER'S 6d. HERB BEER EXTRACT.



This Clock given to all purchasers of one dozen 2/9 powders.

Dr. Thompson's **AMERICAN TEETHING POWDERS.**

☞ Contain no Opium or Mercury.

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PERFECT MEAT PREPARATIONS FOR INVALIDS.

VIKING BEEF TEA JELLY.

VIKING ESSENCE OF BEEF.

VIKING PURE BEEF TEA
(Concentrated).

VIKING
INVALID TURTLE SOUP.

VIKING MEAT LOZENGES.

VIKING
"LIEBIG'S" EXTRACT.

VIKING
TURTLE CONSOMMÉ
(Clear Soup).



The British Medical Journal says:
"The Preparations of this Company are pure and of very high quality."

The Lancet says:
"These Preparations seem to us as good as they could possibly be."

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"I have much pleasure in stating that I have used the Viking Essence of Beef and the Invalid Turtle Soup among my patients. I have found them meet with universal approbation. I can state from my own experience that the Turtle Soup is the most delicious food I have ever met with for the sick-room; it is easily digested, and generally taken with relish, even when the appetite is most capricious. The Essence of Beef appears to me to be a thoroughly good and nutritious food."

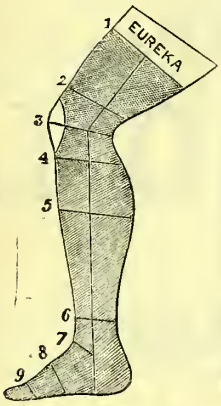
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STAND No. 60

AT THE CHEMISTS' AND DRUGGISTS' EXHIBITION.

Showing complete samples of Trusses, Elastic Hosiery, Abdominal Belts, Chest Expanding Braces, Sanitary Pads, Bath Gloves, Loofahs, Magnetic and Galvanic Electrical Appliances, Chest Protectors, Suspensory Bandages, &c.

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Messrs. EDWARD COOK & CO., LONDON, hope to be favoured with a visit from their customers at their Stand, near the Main Entrance.

COOK'S PURE TOILET SOAPS

IN GREAT VARIETY FOR CHEMISTS AND DRUGGISTS.

COOK'S "RIVIERA" (Super-fatted), Specially prepared for Delicate & Sensitive Skins.

DON'T MISS IT!



THE TASMANIAN EUCALYPTUS OIL CO.'S EXHIBIT IS No. 35 IN THE MAIN AVENUE OF THE CHEMIST'S & DRUGGIST'S EXHIBITION

IT will contain many NOVELTIES and NEW INVENTIONS calculated to make the FORTUNES of the

CHEMISTS.

BOSISTO'S "STANDARD TEST"
EUCALYPTUS OIL

PARROT 

BRAND.

Sold only in 1-lb. and 2-lb. Bottles.

This Oil is the product of Fresh Eucalyptus Foliage obtained from the Desert species, Dumosa and Oleosa, and yields under proper treatment 35 per cent. water-white crystallisable Eucalyptol, having the specific gravity, 0·920, Temp. 15° Cent., crystallising at 14° Cent., and re-melting at 1° Cent. **BOSISTO'S EUCALYPTUS OIL** received the Silver Medal of the Society of Arts for the introduction into commerce of the Essential Oil of the Eucalyptus from Australia, 1866, and has been awarded at various European, American, and Australian Exhibitions since 1853, **10 Gold Medals, 8 Silver Medals, 18 Bronze Medals.**

Quantities less than original packages supplied by Messrs. Allen & Hanburys, Barron, Harvey & Co., A. S. Hill & Sons, Hockin, Wilson & Co., London & Manchester; Hodgkinson, Treacher & Clarke; Grimwade, Ridley & Co., Ipswich. Or in **original cases only,** containing either 36 1-lb. bottles, or 25 2-lb. bottles, by the **Sole Consignees,**

GRIMWADE, RIDLEY & CO., 82 BISHOPSGATE ST., LONDON.

BICKFORD'S
EUCALYPTUS OIL

25-lb. Tins.  **25-lb. Tins.**

KANGAROO BRAND.

TRADE MARK.

Is admitted to be the Purest Eucalyptus Oil yet introduced to the public.
To be obtained of your Wholesale Druggist.

SOLE CONSIGNEES—LAUGHLAND, MACKAY & BAKER, 50 Lime St., LONDON.

COLONIAL ADDRESS—A. M. BICKFORD & SONS, WHOLESALE DRUGGISTS, 46 CURRIE STREET ADELAIDE.

Must a Man Bite his own Nose off?

The American Soap Journal and Perfume Gazette has a keen, shrewd leader in its issue for April, in which it traverses an article in the *Chicago Inter-Ocean*, headed—"Keeping up the Retail Price of Soap on the part of Manufacturers." The *Soap Journal* handles the *Inter-Ocean* with a quiet, masterly hand, which is not the less entertaining that it is *à la Americaine.*

* * * * * * * * * * * *

"* * * The *Inter-Ocean* continues its explanation by pointing out the necessity of a law to prevent manufacturers from instructing retailers at what price they shall sell the goods of the former's manufacture, and cites as an illustration the case of the Proctor & Gamble Co.; it disclaims any ill-feeling towards this firm, and explains its selection of this particular example on the ground that 'their peculiar fault is that they have been found out; other great firms are believed to be pursuing the same unjust and tyrannical course.' As a starting-point the newspaper states that the company's agent admits the existence of the following 'Instructions to Wholesalers,' which Wholesalers are required to live up to in order to be allowed to buy Proctor & Gamble's Soap.

"'To Wholesale Dealers of Chicago.—Please decline to sell or deliver any of Proctor & Gamble Company's brands of soap or candles to the parties named herein, for the reason that sales made to or by said parties result in loss to both wholesale and retail grocers who desire to realise a proper margin of profit on sales of said brands of goods.'

"Then follows a list that names some among the most famous stores of the city.

"To this the *Inter-Ocean* adds the following comment:—

"'Who made Proctor & Gamble rulers and judges to decree what price should be charged for their soap after it has passed out of their hands? When they have made their profit out of it, by what pretext of justice do they assume to regulate the profits of others? A more absolute tyranny cannot be imagined than that a manufacturing or commercial house shall exercise control over goods or things it has ceased to own. When Proctor & Gamble have been paid for their soap it ceases to be theirs. Proctor & Gamble's money is their money until it is paid by them in exchange for something they need; when it is so paid it becomes some one else's money; in part the money of men who have traded labour for it. If they have power to exercise control over the soap after wholesale grocers have bought it from them, then they have power to control the money after labourers have bought it from them.'

"Here then is a point on which to argue. To begin with, it has been said that there is probably more behind the *Inter-Ocean's* exposition of the question than that paper would care to have its readers know [*sic*]. However that may be, its illustration as to labour appears, to say the least, very far-fetched. As to the merits of its argument it appears to an unbiassed observer that a manufacturer must by all means have the privilege to refuse serving a customer whose intentions are fully understood to be to use the article bought in a manner damaging to the manufacturer. Emulating the example of our contemporary, we will here also make a comparison. Let us suppose the Editor of the *Inter-Ocean* were a proprietor of a gun-shop, and an irate customer had intimated his desire to punch the editor's head. Let us further suppose that the general public should consider it for the public's benefit that the editor's head be punched, and that the irate customer goes to the supposed gun-shop to buy a sand-bag, a billy, and a nice nickel-plated set of brass-knuckles, would the Editor of the *Inter-Ocean*, in view of all the circumstances, consider it his duty to the public to make the sale? And if not, is a manufacturer bound to make a sale of goods which are intended to injure him? Probably our contemporary will fail to see that our proposition and its own on the labour and on the soap questions are identical, but we hope others will see it.

"The interposition of the wholesaler between the manufacturer and the retailer is merely a commercial convenience, and can have no practical effect in the problem. Stripped from all artificial complications, the question is simply this: Is a producer morally bound to furnish his products to all comers, even if the price and the reputation of the product are to be sacrificed at the next great 'Slaughtering Sale'? In other words, 'Must a Man bite off his own Nose'?

"Blondeau et Cie., Proprs. of Vinolia Soap."

Note.—Our position is this:—We recognise that the retailer is in business to make a profit on his sales, and that he must ultimately lose his interest in such goods as are unprofitable. One reason why "Vinolia" Soap is so popular with the trade is that we always see that there is some "bread and butter" in it for everybody. We have made it so that to cut Vinolia preparations below the stipulated cutting prices "is a game that is not worth the candle."

NORTHERN SCHOOL
OF PHARMACY,
100 BURLINGTON STREET, MANCHESTER.

PRINCIPAL: MR. GEO. CLAYTON.

At the Major and Minor Examinations held this month TWENTY gentlemen passed from the Northern, including FOUR MAJORS.

The names will be published in a later issue of THE CHEMIST AND DRUGGIST.

Prospectus with full particulars of the School will be posted to any address.

U R INVITED
To examine the
NEW "JORDAN"
TABLET MACHINE
For making all kinds of
OMPRESSED TABLETS.
THE LATEST, BEST, AND CHEAPEST MACHINE.

STAND No. 38, Agricultural Hall, April 22 to 29.
AGENT—F. FOSTER, SCARBOROUGH.

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THE MANCHESTER COLLEGE
OF PHARMACY.

Directors— { Mr. W. SPENCER TURNER.
Mr. CHARLES TURNER, F.C.S.

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Including SPERMATORRHŒA, PROSTATORRHŒA. IMPOTENCE, and STERILITY in both Sexes.

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Assistant Physician to St. John's Hospital for Diseases of the Skin.

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LONDON HOMŒOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY, W.C.

President—THE LORD EBURY.

Contains 90 beds, and, being entirely supported by Voluntary Contributions, Donations and Annual Subscriptions are earnestly solicited. The Hospital is always open to the inspection of visitors, and Clinical Instruction is given in the Wards and Out-patient Department to Medical Students and Practitioners. It possesses a valuable Library of Homœopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. The In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 215,000. It has a staff of 42 Nurses for Ward Nursing and Nursing Invalids at their residences.

G. A. CROSS, *Secretary-Superintendent.*

SILVERLOCK'S POSTAL ORDER RECORD BOOK. WITH PRINTED HEADINGS. Size 8 × 5, bound in cloth. Price 1/6, Post free.

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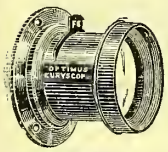
THE WHOLESALE AND RETAIL DRUGGISTS' PRICE BOOK. By D. ELLIOTT. 1891. NEW EDITION. Revised according to the latest Edition of the British Pharmacopœia, 1890. Pocket size, bound in leather, price 3/. This Edition can be used as a Telegraphic Code if required.

JOHNSON'S COMPENDIUM FORM, For Entering Trade Receipts and Expenses. (Specially adapted for Chemists.) Eighth Edition, Revised, price 8/6. Or for Three Years with a Three Years' Balance Sheet, bound in one Volume, price 10/6.

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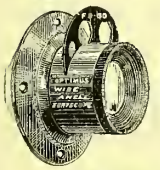
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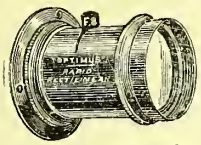
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(Double) F/9 ·50. This aperture is exceedingly open for wide-angle work. The definition, however, is in no way sacrificed, as the curvatures are most perfectly accurate, and the minute detail in architectural and interior subjects is rendered with the maximum of crispness and a total absence of distortion.

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F/8. Second only to the above for Rapidity; therefore well suited for instantaneous effects, outdoor groups and views, as well as interiors. Copying and enlarging are also within the capabilities of this lens—in fact, its work may be styled UNIVERSAL.

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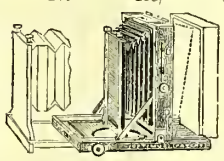
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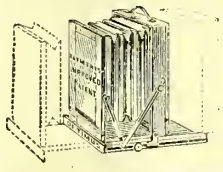
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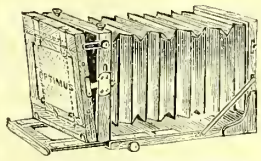


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130/-	145/-	168/-	212/-	258/-	304/-

'The "Rayment" Camera in particular claims attention both for its BEAUTY OF WORKMANSHIP and for the EASE and READINESS with which it can be put into action."—*The Camera.*

'OPTIMUS' CAMERA (Long Focus).



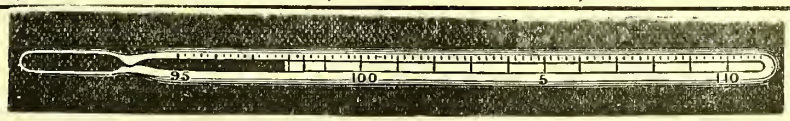
Price includes 3 Double Dark Slides.

4½×3½	6½×4½	8½×6½	10×8	12×10	15×12
130/-	137/-	175/-	227/-	275/-	333/-

'I should strongly recommend Rayment's Camera. It is LIGHT, COMPACT, very RIGID, and extends to about double the usual focus.'—*Amateur Photographer.*

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HICKS'S LATEST PATENT "NON PLUS ULTRA" THE CLINICAL THERMOMETER.



STRENGTH, RAPIDITY, AND ACCURACY.

All other Thermometers have a contraction in the stem an inch above the bulb, and a chamber within which retains a part of the mercury. This is a defect, as it is a difficult matter to heat the mercury properly in this chamber, it being so far away from the bulb and mouth. The "Non Plus Ultra" Thermometer has no chamber, and the constriction is right on top of the bulb itself. Result—a truer temperature is taken, and in half the time; the scale is much more open and easy to read, as the divisions and figures are so much nearer the bulb. It has greater strength, and the price is no higher!!!

NOW READY.

And can be obtained at once of all OPTICIANS and LEADING SURGICAL HOUSES.

See Press Opinions.

The Superintendent of the Royal Kew Observatory says:—

"Their manufacture is a piece of undoubtedly high-class glass-blowing, and I also think that the removal of the contraction of the glass stem, usually placed at about half-an-inch from the bulb, will tend greatly toward extending the average life of a thermometer by increasing its strength, independently of the fact that, with the diminished bulb, much less time is required now to register a patient's temperature, and so you will be conferring a very large benefit on the medical profession by its introduction to the world."

EVERY THERMOMETER OF THIS MAKE IS GUARANTEED TO REGISTER THE TEMPERATURE IN LESS THAN TWO MINUTES.

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GIBSON'S VOCAL LOZENGE

"TOP NOTE PRODUCERS."

The immensely increasing demand for these Lozenges, and their wonderful popularity, is entirely due to their intrinsic merits, not only as producers of a fine clear voice, but as an effectual remedy for all Chest Affection Sore Throats, arising from cold, seem to disappear as if by magic; Tickling in the Throat or Hoarseness is removed by allowing a few Lozenges to gradually dissolve in the mouth; indeed, Debility and Weakness of the Vocal Organs are unknow to those who regularly use these valuable Lozenges. **Sold in 1/1½ and 2/9 Boxes.**

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The most delightful and delicately perfumed Lozenge ever produced; have an immense sale.

With 4 lbs. of these Lozenges we give one of Mellin's Patent White-glass Silver Top Screw-stoppered Bottles.

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FOR SINGERS AND PUBLIC SPEAKERS.

DIGESTIVE DINNER TABLETS,

Composed of Bismuth, Cardamom, Soda, Rhubarb, Ginger, &c.

CHOCOLATE WORM CAKES,

Very palatable and unusually attractive.

Packed in Tins, each containing 3 doz., 6 doz., or 12 doz. Cakes. Retailed at One Penny each.

Sugar Worm Cakes,

Contain Calomel, Jalap, and Santonine (flavoured with Raspberry), are palatable and very effective.

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Put up in 3-doz., 6-doz., and 1-gross Tins. [1]

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ACETIC ACID
Fuerst Bros.
Greeff, R. W., & Co.
Lorenz, H.
Morris & Callard (Salts)

ADVERTISING SPECIALITIES
Lawton, J. W.
Sears, F. W.

AERTD & MINRLS
Apollinaris Co.
Barnett & Foster
Burroughs, Wellcome & Co.
Chemists' Aerated Waters Association, Lim.
Detsinyi, F.
Ellis & Son (Ruthin)
Franz, Josef
Hay, W. | Idris & Co.
Ingram & Royle
Jewshury & Brown
Johannis Spring, Lim.
Kinmond & Co.
Levico Water
Mills & Co. (Bourne)
Rosbach Water Co.

DITTO PLANT
[See SYPHONS and ESSENCES.]
Barnett & Foster
Bratby & Hinchliffe, Lim.
Gueret Frères
Meadowcroft & Son
Rylands, Dan, Lim.
Tyler, Hayward, & Co.

AGNCIES ABROAD
Australian Drug Co.
Ball, Hobson & Co.
Kempthorne, Prosser & Co.
Lennon, B. G., & Co. [N.Z.)
Peake, Allen & Co.
Prosser, Taylor & Co.
Soul, W. H., & Co.

ALKALOIDS
Howards & Sons (Cinchona)
Smith, T. & H., & Co.

AMMONIA
May & Baker, Lim.
White, A., & Sons
Woolley, Sons & Co.

APPARATUS
Berend, O., & Co.
Hicks, J. J.
Ohlson, A.
Orme, J., & Co. (Scientific)
Perken, Son & Rayment
Poths, H., & Co.

BAKING POWDER
Goodall, Backhouse & Co.

BANDAGES
Bailey, W. H., & Son
Robinson & Sons
Schutze, F., & Co.

BEESWAX
Boehm, F.

BICARB. SODA
Brunner, Mond & Co., Lim.
Howards & Sons
May & Baker, Lim.

BISMUTH PREP.
Hearon, Squire & Francis
Hewlett & Sons
Howards & Sons
May & Baker, Lim.
Symes & Co. | Tyrer, T., & Co.
White, Alfred, & Sons

BOOKS
Galenic Pharmacy (Cripps)
George W.
Hargreaves, Dr., M.D.
Squire, P. W.

BORAX
Howards & Sons
Mack's Starch

BOTTLES
Aire & Calder Bottle Co., Lim.
Barnett & Foster
Barrett, R. H.
Bratby & Hinchliffe, Lim.
Evans, Sons & Co.
Gilbertson, H., & Sons
Hearn, E. A., & Co.
Isaacs & Co.
Johnsen & Jörgensen
Kilner Bros.
Poths, H., & Co.
Shirley, A. W.
Toogood, W.
"W" Brand Bottles
Youldon, E.

BOXES
Austin & Co. (Cardboard)
Crowden & Garrod
Evans, Sons & Co.
Kent, G. B., & Sons
Kilner Bros.
Robinson & Sons

BRUSHES
Crowden & Garrod
Evans, Sons & Co.
Kent, G. B., & Sons

BUNSEN BURNRS
Berend & Co.

BUTTER COLR, &c.
Boulton, J., & Co., Lim.
Crawshaw & Co.
Hatrick & Co., Lim.

CACHOUS
Blyton, Astley & Co.
Jackson Thos.
Pascall, J.
Warrick Brothers

CAMPHOR
Fuerst Bros.
Howards & Sons
May & Baker, Lim.
Morrison, J., & Co. (Comprsd)

CAPSULES
Denoual, J. (Medicinal)
Duncan, Flockhart & Co.
Evans, Sons & Co.
Hooper, B., & Co.
Lofthouse & Saltmer
Mason, C. E., & Co.
Richardson, John, & Co. (Leicester), Lim.
Warrick Brothers
Wyleys, Lim.

CARBOLIC ACID
Calvert, F. C., & Co.

CSCRA SAGRADA
Anderson & Co.
Duncan, Flockhart & Co.
Evans, Sons & Co.
Ferris & Co.
Moss, J., & Co.

CASTOR OIL
Allen & Hanburys
Christy & Co. (Aromaticum)
Fuerst Bros.
Greeff, R. W., & Co.

CATALOGUES
Newbery, F., & Sons
Maw, S., Son & Thompsou
May, Roberts & Co.
Sanger & Sons

CHECK TILLS
National Cash Till Co.
Patent Voucher Check Till Co., Lim.
Stokes, G. R., & Co., Lim.

CHEST PROTCTRS
Chemists' Association Lim.
Hockin, Wilson & Co.
Liverpool Patent Lint Co.
Newbery, F., & Sons
Pattison, G. | Solport Bros.

CHEMICALS
Boehm, F.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Bramwell, E., & Son
Brunner, Mond & Co., Lim.
Fletcher, Fletcher & Stevenson
Fuerst Bros.
Goodall, Backhouse & Co.
Greeff, R. W., & Co.
Hill, A. S., & Son [Clarke Hodgkinsons, Treacher & Howards & Sons (Pharm.)
Levermore, Aug., & Co.
Lofthouse & Saltmer
Lorenz, H.
May & Baker, Lim.
Morris & Callard | Moss & Co.
Smith, T. & H., & Co.
Tyrer, T., & Co.
Washington Chemical Co.
White, A., & Sons
Zimmermann, A. & M.

CHLOR. OF LIME
Government Sanitary Co.
National Chemical Co.

CHLORODYNE
Davenport (Browne's)
Towle, A. P., & Son

CHLOROFORM, &c.
Duncan, Flockhart & Co.
Greeff, R. W., & Co.
Macfarlan, J. F., & Son
Salamon & Co., Lim.
Smith, T. & H., & Co.
Wright, Layman & Umney
Zimmermann, A. & M.

COCAINE-HYDRO.
Howards & Sons

COCA WINE
Armbrecht, Nelson & Co.
French Hygienic Soc.
Stephen Smith & Co. (Hall's)

COCA & CHOCOLTE
Cadbury Bros. | Christy & Co.
Rowntree & Co.

COD LIVER OIL
Allen & Hanburys
Bleasdale & Co.
Burroughs, Wellcome & Co.
Evans, Sons & Co.
Greeff, R. W., & Co.
Hill, A. S., & Son
Hockin, Wilson & Co.
Robinson & Co.
Smith, T. & H., & Co.
Woolley, Sons & Co.

COFFEE
Symington, T., & Co. (Coffee Essence)
White, Fairchild & Co.

COLAPSBL TUBES
Betts & Co.

COMP. MEDICINS
Allen & Hanburys
Fyton, Astley & Co.
Burroughs, Wellcome & Co.
Fuerst Bros.
Hooper, B., & Co. | Leo & Co.
Lloyd, T. Howard & Co.

CONCENT. LIQRS.
Fletcher, Fletcher&Stevenson
Lloyd, T. Howard & Co.

CONFECTIONERY
Blyton, Astley & Co.
Crawshaw & Co.
Fuerst Brothers
Gibson, R., & Sons
Guest, T., & Co. | Pascall, J.
Southwell, C., & Co.
Warrick Brothers

CORN CURES
Cheng, D.
Pattison, G.
Solport Bros.

COTTON WOOL
Haynes, G., & Co. (Absorbent)
Robinson & Sons (Absorbent)
Sanger, J., & Sons

CRSHD LINSEED
Graham, W., & Co.
Mumford, S. G.

DENTIFRICES
Bailey's Toilet Co.
Beecham, T.
Bronnley, H., & Co.
Dorothy Dentifrice Co.
Hanson, O.
Jewsbury & Brown
Lakeman, J. J.
Quelch, H. C.
Robertshaw & Co.
Stevens, P. A.
Sutton, O., & Co.
Thompson & Capper
Warrick Bros. | Wilson, A.
Woods, W. (Areca Nut)

DISINFECTANTS
Blyton, Astley & Co.
Brooks, T.
Calvert, F. C., & Co.
Bussek Bros. & Co.
Eureka Manufacturing Co.
Fletcher Bros. & Co.
Government Sanitary Co.
Grindley & Co., Lim.
Jeyes' Sanitary Compounds Co.
Mason, C. E., & Co.
May & Baker, Lim.
National Chemical Co.
Sanitas Co.
Ssabury & Johnson
Tyrer, T., & Co.

DOG MEDICINES
Spratt's Patent, Lim.

DRUGGISTS' SUN.
Ayrton & Saunders
Bailey, M., & Co.
Barclay & Sons, Lim.
Beaulettes Co.
Bush, H. W., & Co.
Chemists' Association, Lim.
Chemists' Mineral Water Association, Lim.
Crowden & Garrod
Evans, Lescher & Webb
Evans, Sons & Co. (Savars)
Fordham, W. B., & Sons, Lim.
Gilbertson, H., & Sons
Hockin, Wilson & Co.
Idris & Co. | Kay Bros., Lim.
"Lunguli" Co.
May, Roberts & Co.
Newbery, F., & Sons
Quelch, H. C.
Sanger & Sons
Sanitary Wood-wool Co., Lim.
Schulze & Co. | Taite & Co.
Tidman & Son | Toogood, W. O.
Tyer Rubber Co.
Warne & Co.
Wood, Vincent | Young, J.

DRUG MILLS
Burroughs, Wellcome & Co.

DRYSALTERIES
Browning, J. H., & Co.
Burton, W., & Sons

DYES, &c.
Ayrton & Saunders
Burton, W., & Sons
Crawshaw & Co.
Hatrick & Co., Lim.

EAU DE COLOGNE
Farina, J. M.
Hockin, Wilson & Co. (Farina)
Martin, Maria (Nun)
Moevich, Oscar, & Co.
Mülhens, F.

ELECTRIC APPAR.
Darton, F., & Co.
Gent & Co. | Orme & Co.

EMBROCATION
Day & Sons

ENEMAS
Barclays, Lim.
Evans, Sons & Co.
Sanger & Son

ENGRAVERS
Corsan, J. R.

ESSENCES
Boehm, F.
Boulton, J., & Co.
Brathy & Hinchliffe, Lim.
Burgoyne, Burbidges & Co.
Bush, W. J., & Co.
Fletcher, Fletcher & Stevenson
Goodall, Backhouse & Co.
Hay, W.
Idris & Co.
May & Baker, Lim.
Meadowcroft & Son
Newball & Mason
Stevenson & Howell
Tyrer, P. (Anchovies)
Tyrer, T., & Co.
Woolley, Sons & Co.

ESSENTIAL OILS
Allen, Stafford, & Sons
Boehm, F.
Bush, W. J., & Co.
Clay, Dod & Co
Cocking & Co. (Japan Pepper-
Dodge & Olcott [mint)
Dors, J. H. L.
Evans, Sons & Co.
Hodgkinsons, Treacher & Clarke
Lewig, M.
May & Baker, Lim.
Meadowcroft & Sons
Schlesinger, L.
Sozio & Andrioli
Stevenson & Howell
Symes & Co.
Treatt, R. C.
Vogt, G., & Co.
Warrick Bros.
Witrofsky, E.
Wright, Laymau & Umney

ETHER
Duncan, Flockhart & Co.
Howards & Sons
May & Baker, Lim.
Robbins, J., & Co.
Tyrer, T., & Co.
White, A., & Sons
Woolley, Sons & Co.
Wright, Layman & Umney

EUCALYPTUS
Bickfords | Bosisto's
Drysdale, J. W., & Co.
Evans, Lescher & Webb
Fletcher, Fletcher & Stevenson
Grimwade, Ridley & Co.
Laughland, Mackay & Baker
Murdoch, J., & Co.
Tasmanian Eucalyptus Oil Co.
Vogt, G., & Co.

EXALGINE
Kühn, B.

EXTRACT MEAT
Brand & Co.
Bush's Liquid Beef
Idris & Co. (Viking Co.)
Lishig Co.
Liquor Carnis Co., Lim.
Mason, G., & Co., Lim.
Wyeth, J., & Brother

EXTRCTS, FLUID
Allen & Hanburys
Anderson & Co.
Burgoyne, Burbridges & Co.
Evans, Sons & Co.
Fletcher, Fletcher & Stevenson
Hearon, Squire & Francis
Hooper, B., & Co.
Lloyd T. Howard, & Co.
Moss & Co.
Potter & Clarke
Vogt, G., & Co.
Wright, Layman & Umney

FEEDG BOTTLES
Burroughs, Wellcome & Co. (Thermo Safs)
Chemists' Association, Lim.
Evans, Sons & Co.
Hearn, E. A., & Co.
Hockin, Wilson & Co.
Kilner Bros. | Lynch & Co.
Marriott, E., & Co.
May, Roberts & Co.
Maw, S., Son & Thompson
Spence & Co.

FILTERING
Berkefeld Filter Co.
Fordham, W. B., & Sons, Lim.
Silicated Carbon Filter Co.

FLESH GLOVES
Pattison, G.

FLY PAPERS
Ford, Shapland & Co.
Tunbridge & Wright

FORMULA
Brooks, T.

FOOD (Infants' & Invalid's)
Allen & Hanburys
Benger's Food
Brand & Co.
Chinnah, H. B.
Evans, Sons & Co.
Goodall, Backhouse & Co.
Hearon, Squire & Francis
Idris & Co.
Liebig Co.
Liquor Carnis Co., Lim.
Mason & Co., Lim.
Nestlé, H.

GINGER ALE
Hay, W. (Essence)
Mills, R. M., & Co.

GLYCERINE
Blyton, Astley & Co. Pastilles)
Boehm, F. | Fink & Co.
Fuerst Bros.
Greeff, R. W., & Co.
Price's Candle Co., Lim.
Watson & Sons

GOUT & RHEUMATIC PILLS
Bromley, C.
Eade, Geo (Blair's)

GRANULAR PREP.
Bishop, A., & Sons
Evans, Sons & Co.
Hearon, Squire & Francis
Lloyd, T. Howard, & Co.
Wright, Layman & Umney

GUM
Fink & Co. (Arabic, &c.)
Greef, R. W., & Co.
Levermore, Aug., & Co.
Van der Lely & Simpson

HAIR PREP.
Anglo-American Drug Co., Lim.
Chssehrough Co.
Edwards & Co.
Truefitt, H. P., Lim.

HERBS
Newball & Mason
Potter & Clarke

HERB BEER EXTS
Newhall & Mason
Potter & Clarke

HOMŒOPATHIC
Epps & Co.
Keene & Ashwell
Leath & Ross
Thompson & Capper
Watson & Wates

HYPOPHOSPHITES
Duncan, Flockhart & Co.
Fellows
Fletcher, Fletcher & Co.
Symes & Co.
Tyrer, T., & Co.

INDIARUB. GOODS
Tyer Rubber Co.
Warne, W., & Co.

INHALERS
Burroughs, Wellcome & Co.
Hockin, Wilson & Co.
Krohne & Sesemann
Spirone, Co., The
Toogood, W.

INK [See MARKING INKS]
Bewley & Draper

INSECTICIDES
Rocke, Tompsitt & Co.
Stemer & Co.

INSURANCE
London and Lancashire Fire Insurance Co.

KETCHUP
Tyrer, P.

KOLA PREPRTN
Christy, T., & Co.

LARD
Ewen, J., & Sons

LINT
Liverpool Lint Co.
Newsome, C.
Robinson & Sons

LIQUORICE
Dennis Di Luggo & Co.
Fergusson & Forster

LITHIA
Fuerst Bros.

LOZENGES
Allen & Hanburys
Blyton, Astley & Co.
Davidson & Gray
Géraudel's Pastilles
Gibson, R., & Sons Manfrs.)
Hill & Son
Jackson, T.
Raimes & Co. | Warrick Bros.

MACHINERY
Bennett, Sons & Shears
Burroughs, Wellcome & Co.
Foster, F.
Gardner, W.
Mayfarth, Ph., & Co.
Ohlson, A.
Struthers & Craig (Sifting)
Tangyes, Lim.
Werner & Pfleiderer (Kneading and Sifting)

MAGNESIA
Bush, W., Son & Co.
Duncan, Fuller & Co.
Evans, Sons & Co.
Greeff, R. W., & Co.
Henry, T. & W. (Calcined)
Hill, A. S., & Sons
Washington Chemical Co.

MALT EXTRCT, &c.
Allen & Hanburys
Andersen & Co.
Burroughs, Wellcome & Co. (Kepler's)
Hearon, Squire & Francis
Moss, J., & Co.
Raimes & Co.
Richardson, John, & Co. (Leicester), Lim.
Robinson & Co.

MARKING INKS
Bond, John (Crystal Palace) (Ink and Pencils)

MEDICINE CHSTS
Burroughs, Wellcome & Co.
Day, Son & Hewitt, Veterinary)
Day & Sons (Veterinary)

MENTHOL
A 1 Menthol Depot (A. W. Shirley, Proprietor)
Burroughs, Wellcome & Co.
Christy, T., & Co.
Cocking & Co.
Duncan, Fuller & Co.
Evans, Sons & Co.
Hockin, Wilson & Co.
Tyrer, P. | Vint, T. D.

MERCURIALS
Fuerst Bros.
Howards & Sons
May & Baker, Lim.
Tyrer, T., & Co.

METH. SPIRTS, &c.
Boora & Son | Burrough, J.
Harvey, J. & W., & Co.
Jones & Co.
Phillips, G., & Co.
Smith, S., & Co.

METHYLENE
Robbins, J., & Co.

MICROSCOPES
Darton, F., & Co
Perken, Son & Rayment

MILK
Nestlé, H. (Condensed)

MORPHIA
Macfarlan, J. F., & Co.
Smith, T. & H., & Co.

OILS, PAINTS, &c.
Browning, J. H., & Co.
Fox, W., & Sons
Pinchin, Johnson & Co.

OINTMNT BASES
Burgess, E., jun.
Burroughs, Wellcome & Co. (Lanoline)
Chesebrough Co. (Vaseline)
Christy, T., & Co.
Deacon, H. J. (Burgess)
Grindley & Co. (Petroleum
Lloyd, T. Howard, & Co. [Jelly)
Richardson, J., & Co. (Leicester); Lim. (Anaspaline)

OPTICIANS
Botwright & Grey
Darton, F., & Co.
Perken, Son & Rayment

OTTO OF ROSE
Fuerst Bros.
Witrofsky, J. R.

OXIDE OF ZINC
Hubbuck, T., & Son, Lim.

PAPAIN
Kühn, B. (Dr. Finkler)

PAT. MEDCNS, &c.
Anglo-Amer. Drug Co., Lim.
Atkinson & Barker (Infant Preserv.)
Barclay & Sons, Lim.
Beecham, T. (Pills)
Bow's, Dr., Liniment
Bromley, C. (Gout and Rheu.)
Chemists' Association, Lim.
Clarke's Blood Mixture
Congreve, G. F.
Dr. Hebert
Edwards & Son
Evans, Lescher & Webb
Fassett & Johnson
Fenning (Powders)
Goodall, Backhouse & Co.
Hakka Cream (A.P. Bush & Co.)
Holloway (Pills and Oint.)
Hovenden & Sons
Lalor (Phosphodyne, &c.)
"Lunguli" Co.
March & Co.
May, Roberts & Co.
Newbery, F., & Sons
Roberts & Co. (Foreign)
Rooke, Dr., Lim.
Sequah, Lim.
Sutton, W., & Co.
Wilson, A. (Bunter's Nervine)

PEPPERMINT OIL
Bush, W. J., & Co.
Cocking & Co.
Stevenson & Howell

PEPSIN, &c.
Armour & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Fletcher, Fletcher & Stevenson
Greeff, R. W., & Co.
Kühn, B.
Newbery, F., & Sons (Ingluvin)
Stern, G. & G.
Waruer & Co. (Ingluvin)

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Bayley & Co. | Beaulette Co.
Bleasdale & Co.
Blondeau & Cie. | Boehm, F.
Blyton, Astley & Co.
Brooks, T. (Solid Perfume)
Burroughs, Wellcome & Co.
Bush, W., & Co.
Chemists' Association, Lim.
Chesebrough Co.
Evans, Sons & Co.
Ewen, J., & Sons
Farina, J. M.
Grossmith, J., & Sons
Hovenden & Sons
Mulhens, F.
Newbery, F., & Sons (Berdoes)
Pears', A & F., Lim
Price's Patent Candle Co.
Rosmarine Co.
Sainshury, S. (Lav. Water)
Sandoid & Co. | Shirley, A. W.
Sozio & Andrioli
Tidman & Son | Treatt, R. C.
Truefitt, H. P., Lim.
Warrick Brothers
West, T. (Okell's Mona)
Woolley, Sons & Co. (Powder)
Wright, Layman & Umney

PEROX. OF HYDR.
Burton, W., & Sons
May & Baker, Lim.
Robbins & Co.

PETROLEUM
Allen & Hanburys
Barclay & Sons, Lim.
Des Oil Co., Lim.
Fuerst Bros. (Jelly)
Grindley & Co. (Jelly)
Hatrick & Co., Lim.

PHARM. PREPS.
Allen & Hanburys
Anderson & Co.
Arthur & Co.
Barron, Harveys & Co.
Battley & Watts
Boehm, F.
Boehringer, C. F., & Sohne
Boulton, J., & Co., Lim.
Brady & Martin
Burgoyns, Burbidges & Co.
Burroughs, Wellcome & Co.
Chassaing & Co.
Delacre, Ch., & Co.
Duncan, Flockhart & Co.
Ferris & Co.
Fletcher, Fletcher & Co.
Georgs, W.
Giles, Schacht & Co.
Greeff, R. W., & Co.
Hearon, Squire & Francis
Howlett & Sou
Howards & Sons
Jeyes' Sanitary Compounds Co.
Keith & Co. (Conc. Tinctures)
Lambert Pharmacal Co.
May & Baker, Lim.
Moss, J., & Co.
Oppenheimer, Son & Co., Lim.
Potter & Clarke
Richardson, John, & Co. (Leicester), Lim.
Roberts & Co. [cester), Lim.
Smith & Sons
Smith, T. & H., & Co.
Southall Bros. & Barclay
Sutton, W., & Co.
Symes & Co.
Tyrer, T., & Co.
White, Alfred, & Sons
Woolley, Sons & Co.
Wyeth, Jno., & Bro.
Zimmermann, A. & M.

PHOTOGRAPHIC
Artistic Photo Co.
Barclay & Sons, Lim.
Blackfriars Photographic Co.
Botwright & Grey
Burroughs, Wellcome & Co.
Darton, F., & Co.
Fallowfield, J.
Fuerst Bros.
Greeff, R. W., & Co.
Houghton, G., & Sons
Howards & Sons (Chemicals)
Orme, J., & Co.
Perken, Son & Rayment
Tyrer, T., & Co.
White, Alfred, & Sons
Zimmerman & Co.

PILL MACHINES
Pindar, J. W.
Toogood, W. (Coatsr)
Werner & Pfleiderer

PILLS (Coated, &c.)
Allen & Hanburys
Anderton Apothecaries' Hall
Beecham, Thomas
Bromley, C. (Gout & Rheu.)
Burgess, E., jun.
Clay, Dod & Co.
Davidson & Gray
Deacon, H. J.
Eade's Gout Pills
Evans, Sons & Co.
Harrolne Pill Co.
Hearon, Squire & Francis
Hill, A. S., & Son (Holloway's)
Lloyd, T. Howard, & Co.
McKesson & Robbins
Newbery, F., & Sons
Richardson, J., & Co., Lim.
Wand, S. (Pearl Coated)
Waruer, W. R., & Co. (Coated)
Wyleys & Co.

The Chemist & Druggist
SUPPLEMENT.

Businesses Wanted
Businesses for Disposal
Premises to Let
Auction Sales

SATURDAY, APRIL 22, 1893.

Partnerships
Situations Vacant
Situations Wanted
Miscellaneous

A Copy of this Supplement is inserted in every number issued of "The Chemist and Druggist."

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—**LONDON (CITY).**—First-class Retail and Dispensing Business; returns nearly £1,500 yearly; handsomely-fitted shop and good stock; full particulars on application.

2.—**LONDON.**—Thickly populated locality; good-class Family Business yielding large profits; returns about £900 yearly; well-fitted shop and good stock; about £650 required.

3.—**LONDON, N.W.**—First-class Dispensing Business in good residential locality; returns about £800 yearly; may be easily increased; handsome corner shop; good house; particulars on application.

4.—**LONDON, N.**—Good middle-class Business, *with good profits*; capable of extension; returns £500 to £525 yearly; well-fitted shop, very comfortable house; small garden; price £500.

5.—**LONDON, N.W.**—Retail and Dispensing Business; returns nearly £1,100; well-fitted shop and good stock; good house attached, with small garden; about £950 required.

6.—**MANCHESTER.**—Good-class Retail and Family Business; returns over £600; well-fitted shop and good stock; about £500 required; worth attention.

7.—**NORFOLK.**—Good Family Business; situate in a good market town; returns at present about £750, *with good profits*; well-fitted shop and good stock; about £500 required; full particulars on application.

8.—**ESSEX.**—Good-class Family Business, situate in a good market town; returns at present about £750 yearly, *with good profits*; well-fitted shop and good stock; about £500.

9.—**HANTS.**—Retail and Prescribing Business; established many years; returns between £300 and £350; *very good profits*; a well-selected stock and fine shop; good house and garden; a good opening for Dentistry; price £300.

10.—**SOUTHERN COUNTY.**—Seaside.—Fashionable town; first-class Dispensing Business; vendor retiring; returns £1,750 yearly; business premises good; comfortable residence; price (to be arranged) about £1,700.

11.—**CORNWALL.**—Mixed Retail Business, with Dispensing and Wine Agency attached; returns nearly £1,800 yearly; vendor relinquishing for health's sake; valuation only stock and fixtures.

12.—**SOUTH COAST.**—Fashionable town; first-class Dispensing Business; requires extension of Retail to greatly improve it; returns last year between £750 and £800; very good house, on lease; valuation of stock and fixtures, or lump sum can be arranged

13.—**WEST OF ENGLAND.**—Good-class Business, Dispensing and Retail; returns £575 yearly; good house and pretty neighbourhood; price moderate; valuation if wished; about £400 required.

14.—**NORFOLK.**—Capital central town; very old-established and well-known Business; returning £1,500 yearly; owner's ill-health obliges him to relinquish; full investigation allowed; about £1,200 required; lump sum or valuation, at option of purchaser.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

NOTICE.—*Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital. Full particulars on application.*

ORRIDGE & CO., 32 Ludgate Hill, LONDON, E.C.

PARTNERSHIPS.

3s. 6d. for fifty words; 6d. for every 10 words beyond

TO Wholesale Druggists.—Small Share in a Business wanted; about £2,000 could be found by a young man (26), unqualified, with experience in the drug-market, laboratory, manufacture of essences, and general business. Apply, by letter, to S. S., 14 Lady Margaret Road, Kentish Town, N.W.

APPRENTICESHIPS.

APPRENTICE.—A vacancy occurs for an out-door Apprentice in high-class Pharmacy, South Coast. H. Churchill, Pharmaceutical Chemist, 57, 58 East Street, Brighton.

TO Parents and Guardians.—Apprentice wanted by an old-established firm of Chemists in a large town on the South Coast; opportunities for study; comfortable home; references exchanged; premium required. "Alpha," c/o Messrs. Edwards & Son, 157 Queen Victoria Street, London, E.C.

TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

TO Let, part of a Large Shop, corner premises, where a good Chemist trade could be done, as there is none in the district; the other part is used for the Mount Pleasant Road Post Office and Stationery. Apply, 120 Mount Pleasant Road, Hastings.

CLACTON-ON-SEA (the rising seaside resort).—To Chemists and Druggists.—To be let or sold, in best business thoroughfare, modern shop and premises, fitted in latest and most improved manner; splendid opening for a Chemist; could be purchased by payment of a small sum down and balance by easy instalments. Apply, A. W. Huxter, Clacton-on-Sea.

CHEMISTS and Druggists.—To Let, in the important main thoroughfare of Dudley Road, Birmingham (best part), handsome, spacious, and lofty new shop; wood-lined throughout; with bold, noble, and commanding modern plate-glass windows; excellent residence; a qualified Chemist is badly wanted here. Parsons, Pawnbroker, 462 and 464 Dudley Road, Birmingham.

F. J. BRETT,

VALUER, LEICESTER,

60 St. Stephen's Road.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS, 20 YEARS' EXPERIENCE. NO CHARGE TO BUYERS.

STOCKTAKING UNNECESSARY. — Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

F. J. BRETT is prepared to estimate or to value entire stocks as they stand with little or no inconvenience to ordinary business, and has repeatedly done so with entire satisfaction to those adopting this mode.

STOCKS AND FIXTURES BOUGHT FOR CASH.

INLAND WATERING-PLACE.—First-class Retail and Dispensing; returns £450; price £450, about value of stock and fixtures; good residence.

EASTERN COUNTIES.—Good-class Retail, in healthy market town; returns £870; good house; price £750.

LANCS.—General medium Retail; returns £950; good profits; price £600; or goodwill £100, and valuation of stock and fixtures.

YORKS.—Branch Retail; seaside; returns £350, can be doubled; price £200, or valuation.

DERBY.—Branch Retail; returns £500; price £250.

MESSRS. BERDOE & CO.

CHEMISTS' TRANSFER AGENTS & VALUERS,

30 JEWRY STREET, ALDGATE, E.C.

Established 1870.

NOTICE TO VENDORS.

Having been for the past 22 years solely engaged in the Sale, Purchase, and Valuation of Chemists' Businesses, we have, as Transfer Agents and Valuers, the largest experience of any in the Trade. VENDORS placing their businesses in our hands for transfer may in all cases rely upon a speedy sale being effected without undue publicity. Terms forwarded post free on application. No sale, no charge.

NO CHARGE TO PURCHASERS.

1.—**HOME COUNTY** (West of London).—High-class Dispensing Business; in present hands nearly 40 years, and producing a net annual income of nearly £600; price required, £1,500.

2.—**HOME COUNTY** (North).—Ready-money Retail and Dispensing Business; returns £1,000 at good prices, increasing each year; elegantly-fitted corner shop, well-stocked; price £750, or offer.

3.—**KENT** (30 miles out).—Good-class Retail and Dispensing Business; returns £1,000; excellent profits; large house, with garden; handsomely fitted, well stocked; price £900, or offer.

4.—**SOUTH COAST.**—Death Vacancy.—Retail and Dispensing Business; returns £500; excellent main-road position; good house, low rent; valuation of stock and fixtures; required about £270.

5.—**SUSSEX.**—County Retail, Dispensing, and Prescribing Business; returns £500; rent £30; good house, garden; very healthy locality; near the sea; large well-fitted shop; price £400, or offer.

6.—**KENT COAST.**—First-class Retail and Dispensing Business; in same hands over 20 years; retiring; good house; elegantly-fitted shop, well stocked; about £1,200 required.

7.—**EASTERN COUNTY.**—Unopposed country Business; returns nearly £1,100; rent £20; good house and large garden; shop is well fitted and stocked; same hands many years; retiring; price £400.

8.—**LONDON, W.**—High-class Dispensing and Light Retail Business, at full prices, making a net profit of £450 yearly; good house and garden; handsomely-fitted pharmacy; price £900.

9.—**LONDON, N.W.**—Main thoroughfare of a good-class suburb; Retail and Dispensing Business; returns about £1,500; net profit about £500; price required, about £1,350.

10.—**LONDON, S.W.**—Light Retail, Dispensing, and Prescribing Business; returns £1,350, at good prices; splendid position in important main thoroughfare; valuable lease; price £900, or offer.

Messrs. Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

FOR Sale.—Old-established Business; corner shop; centre of populous neighbourhood; price, stock and fixtures, at valuation; long lease. Apply, 70 Herbert Road, Plumstead.

RARE opportunity.—For sale, Branch Business, splendid corner shop; valuable lease; close to station; returns under manager, over £700; a good business man could soon double the returns. F. M., 9 Parkhurst Road, Camden Road, N.

GOOLE, Yorks.—For immediate disposal, a Mixed Drug and Grocery business; established over 50 years; average yearly returns, £2,000 for the past 5 years. Particulars of Mr. Briggs, Bridge Street, Goole; or of Messrs. Lofthouse & Saltmer, Hull.

GENUINE good-class Country Business, in market town; returns about £400; to immediate purchaser, for valuation of stock and fixtures or lump sum of £150, to effect speedy sale, for family reasons. "Opium," c/o Evans, Sons & Co., Liverpool.

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CROCKER & CO.

SOLE PROPRIETORS—

MR. WILLIAM JUDD and MR. ALFRED MANNERS,

Trade Valuers, Transfer Agents, and Accountants,

15 WALBROOK, E.C.

Having numerous inquiries for good-class Country Businesses, they invite communications from intending vendors. **NO CHARGE IS MADE UNLESS A SALE IS EFFECTED**, and particulars of businesses are given to those only having the required amount of capital to invest, thus guaranteeing only *bonâ fide* inquiries and obviating publicity. **VALUATIONS MADE FOR PROBATE OR TRANSFER, BOOKS AUDITED AND BALANCE-SHEETS PREPARED IN ANY PART OF THE UNITED KINGDOM.** After many years' practical experience in the Wholesale and Retail Drug Trade, C. & Co. can offer valuable assistance and advice in the conduct of business of a confidential nature. References permitted to past and present Clients, also to the Leading Wholesale Houses in the Trade.

WILTSHIRE.—Retail and Dispensing Business, in the principal position of an important town: returns £900; price £650; rent £60.

LONDON, N.—Valuable Retail and Dispensing Business, with nice residence, showing a net profit of £400; price £950.

MIDLANDS.—Dispensing and General Country trade; established many years; returns over £500; price, valuation of stock and fixtures.

LONDON (Suburb).—Retail and Dispensing Business, returning under manager over £300 a year, with good profit; price £250; specially recommended.

INLAND WATERING-PLACE. An old-established good-class Family and Dispensing Business; handsomely fitted and well stocked, standing in the best part of fashionable health resort; valuation only.

HOME COUNTY.—Good-class country trade (no heavy); returns £1,750; rent £50; price £1,175; premises are large and conveniently arranged, and stand in best part of busy market town, 30 miles from London.

SURREY.—Unopposed Family and Dispensing trade in pleasant town, about 20 miles from London; returns £1,100 under management; price £900, or valuation; terms may be arranged.

KENT.—Near London; a neglected cash Retail and Prescribing trade; returns £7 weekly; formerly did £16; ill-health cause of sale; price £250.

NO CHARGE TO PURCHASERS.

THOMAS TOMLINSON & SON, Chemists' Valuers, of New Cannon Street, Manchester, have Businesses for disposal in Bradford, price £550, profits £300; Manchester suburb, £150, profits £120; Middleton, £275, profits £220; Sheffield, £5 0, profits £250; Ripon, £650, profits £250; Stockport, £100, profits £100; Fursley, £200, profits £200; Workington, £250, profits £200; St. Heleus, £200, profits £133; Oldham, £300, profits £250; two in Horwich, £175 (profits £130) and £100 (profits £100); Sale, £140, profits £140; Hollinwood, £100, profits £120; Manchester, £300, profits £300; Rochdale (a most reliable one) £420; Shefficld (very profitable) £225, in nice open situation. No charge to ingoers. Say what you want, and we may supply you. Eligible businesses of larger amounts are easily disposed of.

MESSRS. THOMAS TOMLINSON & SON, Valuers, of 9 New Cannon Street, Manchester, have been appointed assessors by the claimants as regards the Stock and Fixtures in the serious fire which occurred last Saturday at the premises of Messrs. Marsden & Kay, Wholesale Druggists, Preston.

BUSINESSES FOR DISPOSAL—Cont.

DISPENSING and General Retail Business, well situated in good-class provincial town; commodious business premises; convenient full-sized dwelling-house; capital required about £500. For particulars, apply Mr. W. T. Chesterman, Milsom Street, Bath.

CHEMIST'S.—The Lease of Premises, in a first-class West-end position, together with the expensive Fittings and Stock, for disposal; all at £1,250 as a going concern; old-established high-class Business. Beard & Son, Auctioneers, &c., 110 Westbourne Grove, W.

THIRTY miles from Town.—Retail and Prescribing Business for disposal, through old age; present takings £6 weekly; capable of doing double immediately in younger hands; £150 or valuation. "Vinolia," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR Disposal, owing to death of proprietor, in good manufacturing town, within 10 miles of Manchester, old-established Druggist and Drysaltery Business; good opening for Dentist connection. Apply, C. H., c/o Messrs. Woolley, Sons & Co., Victoria Bridge, Manchester.

FOR Disposal, a very profitable Dispensing, Light Retail, Prescribing and Tooth Extracting Business (advertiser retiring); double-fronted shop; rent £40; a lease can be had, price £350, including house furniture (much below valuation), or would sell separately; will take part down and balance by instalments to suit purchaser; introduction given; one with a knowledge of dentistry will find this a splendid opportunity. "South-East Coast," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS OPEN—Cont.

JUNIOR wanted, at once (outdoors); hours moderate; must be industrious and trustworthy. Apply, Brooks' Stores, 509 New Cross Road, S.E.

AT once.—A qualified Assistant; age about 22 or 24: 3 kept. State age, height, experience, and salary required indoor, to A. Jeans, 151 Oxford Street, Manchester.

WANTED, experienced outdoor Dispenser for Medical Practice at Harrow. Apply, at once by letter, stating age, whether married or single, and references, to Dr. Williams, Harrow-on-the-Hill.

PART-TIME Junior, in return for board and lodging (indoors), close to Wills' and Muter's Schools, at once; good references; state when going in for examination. Apply, Bunker, 135 Great Dover Street, S.E.

ASSISTANT, holding Minor qualification, aged about 23 or 24, is required to fill a situation in one of the Colonies; progressive salary. Apply to H., c/o B. G. Lennon & Co., Limited, 14 Bunhill Row, London.

WANTED for a good-class Cash trade, an active and reliable Assistant; about 24: outdoors: hours 9 to 9. State age, height, salary required, and give particulars of experience, enclosing photo, Headland & Co., North Street, Brighton.

FIRST-CLASS Counterman; indoors; brisk Cash business, N.W.; must have experience, and pushing Salesman; liberal salary to suitable hand. Apply, stating fullest particulars (none others answered), to J., Messrs. Hodgkinson & Co., 101 Whitecross Street, E.C. Also vacancy for smart Dispenser.

A QUALIFIED single Assistant (indoors), aged 25 to 30, to manage Branch; must have had good all-round experience; salary £70, with small commission: full particulars in first letter as to age, height, experience, when disengaged, and recent references, enclosing photo. Pavey, Chemist, Ramsgate.

QUALIFIED Assistant wanted; with a view to appointment after a time as manager of branch; hours moderate and every encouragement given to an energetic capable man. State salary (outdoor), age, height, details of experience, and when disengaged, to The Scottish Drug Depôt, Limited, Nicolson Street, Edinburgh.

SINGAPORE.—Good Assistant wanted, at once; abstainer preferred; aged about 23; Minor qualification: salary progressive, beginning at £11 per month (outdoors); passage paid out: good prospects to a willing and attentive man, who must hold undeniable references. Apply to "Singapore," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

SOUTH AFRICA.—Two Assistants, with good experience, wanted immediately; Minor qualification; aged about 23; salary, first year, £10 per month; second year, £12 per month; board out, but sleeping accommodation provided; passage paid out; or £12 per month first year passage not paid; candidates must hold first-class references. Apply to "South Africa," Messrs. Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

WANTED, a young qualified Pharmacist, quick and correct at figures, to take entire charge of the cost-books of an important firm of Manufacturing Chemists; no application will be entertained unless proofs are forthcoming of exceptional ability and accuracy in calculations; a permanent, rising position to one able to meet the requirements of the advertisers. Apply by letter, stating age, salary, experience, and other particulars, to A. Y. Q., c/o Thomas Dixon, 16 Great Marlborough Street, W.

CHEMIST'S Assistant wanted, for South Africa; Minor qualification; aged 25; unmarried; good appearance, address, and handwriting indispensable; London experience and slight knowledge of ordinary Bookkeeping preferred; must be an abstainer or very temperate, and character must bear strictest investigation; business includes iced drinks; open Sunday; alternate Sundays free. Replies from applicants not answering these requirements will not be attended to. Photos and copies of testimonials to "Dunbar," c/o H. B. Sleeman, 84 Leadenhall Street, E.C.

LONDON TEMPERANCE HOSPITAL, HAMPSTEAD ROAD, N.W.

THERE will be a vacancy, on June 24th next, for a Dispenser (female) to the above Hospital. Candidates (who must be Members or Associates of the Pharmaceutical Society of Great Britain) are invited to send in their applications to the undersigned, with copies of testimonials, before Friday, May 12th. The Dispenser will be required to attend daily (Sundays excepted) from 10 a.m. to 7 p.m. Salary 30s. per week, 2 meals per diem being also provided at the Hospital. The Dispenser must be prepared (if required to do so) to give instructions in dispensing to members of the Nursing Staff, under conditions to be hereafter arranged.

E. WILSON TAYLOR, Secretary.

April 20th, 1893.

SITUATIONS WANTED.

JUNIO[R], age 23; 7 years' experience. Purdy, 16 Gallowtree Gate, Leicester.

ASSIS[TANT]; qualified; experienced in Dispensing and Retail. Apply, A. B., 72 Strand.

PART[-TIME], in or near Liverpool. N. D., c/o Mr. Cowley, Newington, Liverpool.

JUNIO[R], 5 years' experience; aged 21. A. Naylor, 13 Queen Street, Market Rasen.

JUNIOR (21); 5½ years' experience; good references; disengaged. Beatti[e], Forebank Terrace, Dundee

JUNIOR or Improver (24); 6½ years' good experience. "Alpha," 11 Schoolhill, Aberdeen.

AS Improver; 4 years' experience. Apply, Johnson, New Street, Patel[ey] Bridge, Yorks.

LOCUM-TENENS; 36; qualified; abstainer; disengaged. "Minor," 8 Cast[le] Street East, W.

MINOR seeks engagement in Pharmaceutical or Chemical Laboratory. Wad[e], 7 Coburg Road, S.E.

JUNIOR (21); 5 ft. 10 in.; good experience; disengaged May 17. F., 39 Bowling Street, Keighley.

QUALIFIED; aged 24; 10 years' experience. "Columbia," 15 St. John's Road, Tunbridge Wells.

JUNIOR (21), in Dispensing business; London preferred. C. Clements, Aston Cantlow, Henley-in-Arden.

PART-TIME, or Dispenser to Surgeon; aged 33; experienced. "Student," 27 Drayton Park, N.

JUNIOR (21); Retail and Dispensing; good reference. "Disengaged," Russell Villa, Swanlow, Winsford.

ASSISTANT; qualified Prescriber; aged 26; disengaged. "Fidus," 8 Church Walk, Kensington, W.

LOCUM-TENENS or Branch Manager; registered; references. "Æsculap.," 32 Laurel Grove, Penge.

MANAGER or Assistant (42); qualified; Prescriber, Extractor. Martin, Tower Hill, St. David's, Pem.

JUNIOR (20); 4 years' experience; Nottingham or neighbourhood. "Junior," 14 High Street, Loughborough.

ASSISTANT (23); London preferred; disengaged. "Beta," 44 Northbourne Street, Durham Road, Gateshead.

MANAGER, outdoor Assistant, or Locum-Tenens; qualified. "Divid," 1 Leather Lane, London, W.C.

QUALIFIED (21-22); references; Scotland preferred. "Ferrum," 1 Richmond Place, Portgordon, Banffshire.

JUNIOR; 21; height 5 ft. 9 in.; London; 5 years' experience; good references. B., 13 Upper Baker Street, N.W.

TEMPORARY or Permanent; 42; Major; disengaged. Goodwin, 41 Greyhound Road, Kensal Green, Willesden.

JUNIOR in good-class business; 5 years' experience; tall; aged 20½; disengaged. W., 3 Johnstone Row, Weymouth.

PART-TIME, with small salary, in London; satisfactory references. Apply, H. I. T., 5 Hillside Road, Stamford Hill.

JUNIOR (22); disengaged; 7 years' good experience; excellent references. "Abstainer," 6 Guildford Street, Cardiff.

PART-TIME (24); 8 years' experience; W. district preferred. "Chemicus," 9 Beaumont Crescent, West Kensington.

AS Assistant in a good Dispensing business; unqualified; aged 23; height 5 ft. 8 in. H., 18 College Street, Putney, S.W.

MANAGER or Senior; aged 41; City and West-end experience. Apply, "Quercus," Mr. Stamp, Chemist, Potter's Bar.

DISPENSERSHIP; experienced in Bookkeeping, Minor Surgery, Extract. "Dispenser," 79 Gladstone Road, Wimbledon.

AS Dispenser, Part-time, Chemist or Surgeon; outdoors preferred; Hall qualification. "Coca," 37 Trinity Square, Borough.

AS Locum-tenens in any part at short notice; aged 36; experienced in all branches, including Photography; Major and Apothecaries' Hall qualifications. "Chemist," 18 Brighton Road, Southampton.

MANAGER or Senior.—A Chemist, having English and Irish experience in principal houses, wishes to get appointment in Ireland. 167/16, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES FOR DISPOSAL—Cont.

LIVERPOOL.—For Disposal, handsomely-fitted Shop in a rising suburb of Liverpool; good neighbourhood; satisfactory reasons given for disposal; £250 required; good opening for one well up in Dentistry. Apply, 166/35, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

HULL.—Branch in good and increasing neighbourhood; main road; shop double-fronted, well fitted; returns, under management, £600; good house; rent £40; this is a capital chance for good business man; price £275. Address, B., c/o Messrs. Lofthouse & Saltmer, Hull. Only cash buyers will be treated with.

HULL.—A ready-money Retail Dispensing and Prescribing Business, returning £1,700, from which is derived a net annual profit of £600 yearly; to an immediate purchaser it will be sold for the bare value of stock and fixtures, estimated at £600. "Twyzone," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£75 CASH.—Drug and Sundries; finest position S.E. London; main road; crowded neighbourhood; nicely fitted and stocked; worth double; good opening for Dentistry; now under management; must be disposed of; illness cause selling. Apply, 167/40, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LONDON, N.—For immediate disposal: a grand corner position, opposite Railway Station and Post Office; established 16 years; exceptional opportunity for energetic man with small capital; 20 years' lease; part let at £36 per annum; possession can be had for £200, or open to an offer. R. Hall, 513 Caledonian Road, N.

FOR Sale, Light Retail Chemist's Business in a first-class position in a Yorkshire manufacturing town; the trade includes a profitable business in Photographic requisites, &c.; very few Patent Medicines; rental £100; turnover £1,200 to £1,500 a year; price £1,100. Apply, W. F., care of Hirst, Brooke & Hirst (Limited), Leeds.

MIDLANDS.—For Disposal, a good Mixed Business; neatly fitted-up shop; main road; low rent; returns £400; Trade Recipes include nearly 100 for soluble essences, &c.; £250; a genuine concern, and chance of a lifetime for a young and energetic man. "Plus," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FOR SALE.—The Business of Chemists and Druggists and Wine, Beer and Spirit Merchants carried on by E. T. Evans & Co., at 10 Commercial Row, Pembroke Dock (near Dockyard); rent £25 per annum; takings about £1,200 per annum. For further particulars apply, Thos. Wm. Munden, 4 Queen Anne Buildings, Baldwin Street, Bristol.

£60.—A RECENTLY established Retail and Prescribing Business in North of England; returns over £300; increasing; Post-office attached, which pays rent; wife's illness cause of sale; to an immediate purchaser will take £60; new house in healthy locality. A. D., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MUST be sold at once, through illness, no reasonable offer refused, an old-established Retail and Dispensing Business, in same hands 17 years; returns £460 last year, but have been much more; net profits, £250; rent £36, including large garden; an Agency (Insurance) brings in £25. 159/38, Office of THE CHEMIST AND DRUGGIST, 42 Cannon St., E.C.

£180.—SURREY.—A Light Retail, Dispensing, and Prescribing Business, in an increasing locality; returns £6 weekly; large double-fronted shop, well fitted; excellent stock; good house, long garden; low rent; good opening for adding Dentistry; price £180. "Salicine," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£100, Cash down, small balance by instalments; suit elderly gentleman, or young man commencing; 8-roomed house, side entrance, long garden; rent nearly cleared; returns average £400; a genuine bargain, through exceptional circumstances; trial if desired. Apply, 96/72, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

CARDIFF.—Exceptional opportunity; good Chemist's and Druggist's Business for sale in centre of Cardiff; returns over £500 per annum; price £200; moderate rental; good house; satisfactory reasons for disposal. Apply to J. Freeman Dyson, 10 Commercial Buildings, Park Row, Leeds; or to J. W. Williams, Arcade Chambers, St. John's Square, Cardiff.

£300.—MIDLANDS.—Unopposed Light Retail, Dispensing, and Prescribing Business, in a large village, pleasantly situated; returns £500; net profit £170, after deducting every expense; convenient house; low rent; satisfactory reasons for selling; price £300 or valuation. "Carlsbad," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£350.—Genuine Cash Country Business; situate in best position of principal street in small town; returns between £500 and £600, and increasing; large Agricultural neighbourhood; Light Retail, Prescribing, Dispensing, &c. (nothing heavy); good house and premises at low rental. "Silex," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BELFAST.—Carlisle Circus, Apothecaries' Hall.—For Sale. Owing to the death of Mr. Goskar, his representative offers the above Medical Hall for sale. There is an extensive and remunerative high-class Dispensing and Light Retail Business attached; references permitted to Barron, Harveys & Co., London. For full particulars, apply to J. Dunville Coates, Solicitor, 41 Chichester Street, Belfast.

DENTISTS.—A first-class opportunity to open rooms at an old-established surgery, one door from busy main road; good entrance, professional, and living rooms; weak opposition; moderate rent. Apply, D., 44 Camberwell Road, S.E. (side door).

TO Medical Practitioners, Chemists, &c. Bad health and old age, &c., cause of selling; £135 accepted if sold shortly, or valuation; excellent house, stock and fixtures; rent only £36, tenants pay half the rent. Address, "Dentist," c/o Mr. Newman, 8 St. Michael's Terrace, Wood Green, N.

LONDON, N.—Light Retail and Prescribing Business; densely populated district; attractive and well-fitted shop, 6 rooms, etc.; rent £48 on lease; returns £650; established 50 years; satisfactory reasons for sale; price £300. For full particulars, apply to Andrus & Co., Chemists' Transfer Agents, 67 Ship Street, Brighton.

SURREY.—Unopposed good-class Retail and Dispensing Business; returns £1,075, under management; price £900, or valuation; terms can be arranged; the shop is well fitted and heavily stocked, and stands in best part of charming little town about 15 miles from London. Apply, "Surrey," c/o Messrs. Newbury & Son, 1 King Edward Street, E.C.

TO Veterinary Surgeons or Chemists and Dentists.—For Disposal, genuine Business in pleasant market town; main street, rich Agricultural district; an exceptional opportunity for Veterinary Surgeon; only one within a radius of 9 miles; also excellent opening for a Dentist; large and convenient premises; returns over £1,000. M. R. P. H., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

ADVERTISER offers £5 to person sending information (if acted upon) of an opening for a Chemist in a good class residential neighbourhood with increasing population. "Chemist," 60 Bencon Hill Road, Newark.

GENUINE Light Retail and Dispensing Business in a healthy country locality; returning from £900 to £1,100; advertiser is prepared to pay cash down and give good references; no agents. "Alpha," c/o W. Sutton & Co., 76 Chiswell Street, London, E.C.

WANTED, a Genuine Light Retail, Dispensing and Prescribing Business, with returns £700 and upwards: Price about £450; North or Midlands preferred; good country business with scope for small wholesale not objected to. 21/64, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

QUALIFIED Dispenser (indoors). County Drug Stores, Leamington.

WANTED, an English Assistant. Apply to M. D. Clerfond, 28 Place Vendôme, Paris.

WANTED, an Assistant accustomed to Mixed country trade. Apply, with full particulars, to J. Hardy, Bishops Stortford.

WANTED, qualified Junior; about 22. Send photo, with reference, and state salary required, to Gibbs & Son, Eastbourne.

WANTED, a competent Assistant (indoors); not under 25; one desiring a permanency preferred. P. Williams, Horsham.

WANTED, Junior Assistant; indoors; for cutting ready-money business. W. Veming, 135 High Street, Hounslow, W.

JUNIOR, for early in June; Light Retail Dispensing business; knowledge of Homœopathy preferred. Apply, with usual particulars, J. Tirrell, Hanley.

WANTED, immediately, Junior or Improver, for Stockkeeping. Apply, personally, F. W. Warren & Co., 340 Harrow Road, London, W.

QUALIFIED Assistant; outdoors. References, age, height, photo, salary required, and all particulars of experience, &c., to Mr. Surnett, Windermere.

JUNIOR in Dispensing business; six months' engagement; must be neat and accurate in Dispensing. Carlton & Sons, Hornastle and Woodhall Spa.

ASSISTANT (Catholic); unmarried and qualified preferred; brisk cash trade (outdoor); under 40; now or in a few weeks. 124 Hebrew Road, Burnley, Lancs.

OUTDOOR Assistant wanted for a brisk ready-money Retail. Apply, with photo, stating age, height, and experience, to E. J. Kitson, City Drug Stores, Worcester.

SITUATIONS OPEN—Cont.

WANTED, a capable Assistant; good Counterman. Apply, stating experience, salary required (outdoors), age, &c., to W. Minns, 10 Tontine Square, Thurlby.

ASSISTANT; about 24; hours 8 to 8, Saturdays 10. Apply, stating salary required, age, experience, and references, to "Pharmacist," 2 Castle Bailey Entrance, Colchester.

WANTED, qualified Assistant; outdoors; no Sunday duty. Apply, stating age, references, and salary required, to "Pax," c/o Evans, Sons & Co., Liverpool.

WANTED, a qualified Assistant (outdoors), capable of taking entire charge, if necessary, of a Homœopathic Pharmacy. Apply, S. F. Burford, Halford Street, Leicester.

T. G. GIBBONS & SON, 41 Market Street, Manchester, want qualified Assistant; indoors; no Sunday duty; state age, salary required, references, and give full particulars.

WANTED, Junior Assistant; must be a competent and reliable Dispenser. State age, height, salary required (indoors), and give references. George Brookes, Chemist, Llandudno.

JUNIOR (Minor); indoors; Middle-class business; send photo (to be returned). Apply, with references, age, salary required, to C. H. Smith, Chemist, St. Mary's Street, Portsmouth.

A QUALIFIED Assistant, not under 23 years of age, in a first-class London house, where several are kept. State age, height, and salary required, to X. Y. Z., c/o Horner & Sons, Mitre Square, Aldgate.

MESSRS. HITCHCOCK & CO., Oxford, require a Junior Assistant; qualified. Apply, personally, to J. & H. Mathews, 1 Queen's Gardens, Bayswater, London, or by letter to Oxford.

WANTED, at once, qualified Assistant for General Mixed Trade; Oils, Paints, Colours, &c.; Tooth Extractor. Full particulars, salary outdoor, to Marsden's Drug Co., Limd., Camp Road, Leeds.

MESSRS. W. PHILLIPPS & CO. require at once a competent, qualified Assistant (indoors); not over 25; one accustomed to good-class business; salary £60. 215 Lewisham High Road.

AN Assistant; aged between 30 and 40; married preferred; to reside on business premises; good Extractor; a permanency offered to a suitable man. D., c/o Barclay & Sons, Limited, 95 Farringdon Street.

WANTED, Junior, about 21, for Light Retail and Dispensing business; hours 8 to 8; no Sunday duty. Apply, with full particulars, and enclose photo (to be returned), to R. Knowles, Chemist, Sutton, Surrey.

WANTED, indoor Junior or Improver; one accustomed to Post Office duties preferred. State age, height, experience, references, and salary required, with photo (to be returned), Watson, Chemist, Caistor, Lines.

WANTED, Branch Manager; qualified; age about 27; outdoor; must be well up in Liverpool trade. Enclose carte with recent testimonials (which will be returned) to "Chemist," 104 Gt. Homer Street, Liverpool.

WANTED, Junior Assistant, for 1st week in May (indoors); must be reliable Dispenser and have good references. State age, height, and salary required, and enclose photo to Purnell, 337 High Street, Cheltenham.

WHOLESALE Drug Trade.—Required, an Invoice Clerk; must be accurate at figures and write a good hand. Apply, stating salary, experience, &c., to "Pepsine," c/o THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BECK & JENNER require at once a smart outdoor Assistant for Hastings; aged about 23; abstainer preferred; send photo and full particulars. Also 2 Apprentices. Beck & Jenner, 28 Grand Parade, St. Leonards-on-Sea.

WANTED, capable Assistant (indoors), for Dispensing and Retail business. State age, height, salary required, with usual particulars, and enclose carte (to be returned) to R. P. Roe, 97 Green Lane, Stoneycroft, Liverpool.

ASSISTANT, about 23, with good experience, for quick Retail and Dispensing; must be gentlemanly, active, and obliging. Apply, personally, Drug Dept., Jones Bros. & Co., 358 Holloway Road, N. Close on Saturdays at 4 o'clock.

PART-TIME Assistant wanted (indoor); morning or afternoon for lectures; near Muter's and Wills'; must be used to good-class business; salary £25. Apply, "Matico," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, an active Junior or Improver, one whose character will bear the strictest investigation. Please apply, enclosing carte, stating age and salary required, to D. W. Bardell & Co. (Limited), Chemists, St. Peter's Street, Derby.

INDOOR Assistant, about 23 years of age, with Minor qualification; must be used to good-class trade; a reliable Dispenser, and well recommended. Apply, with salary required, references, and usual particulars, to John Hathaway, Pharmacist, Carlisle.

JUNIOR, who can Dispense fairly, in Mixed country trade; must be an abstainer; moderate salary. State full particulars in first letter, as age, height, salary, and enclose photo to Williams, Chemist, Coleford, Gloucestershire. A Dissenter preferred.

WANTED, about middle of May, for the season, Assistant for Branch; Minor qualification; aged about 25 years; indoors; one able to speak Welsh preferred. Usual particulars, with carte de visite if convenient, to Davies, Chemist, Rhyl, North Wales.

WANTED, immediately, a qualified Assistant, aged about 30, of good address, for a Light Retail and Dispensing business; short hours; only 1 kept; references must be good. Please send photograph and fullest particulars to H. B. Clarke, Church Street, Great Malvern.

A QUALIFIED Assistant, where another is kept; must have been accustomed to a good-class Retail and Dispensing, an active and intelligent Counterman, thoroughly competent, and a reliable Dispenser. Apply to Julian Horrell, Pharmaceutical Chemist, Broadstairs.

WANTED, trustworthy Assistant of good experience and address for new business in good suburb; must be well up. Apply, with full particulars, stating salary, age, height, references, enclose photo (returnable), Peurmund, Pharmacist, Crouch Hill Pharmacy, Crouch End, N.

WAREHOUSEMAN wanted, who thoroughly understands the testing of Essential Oils and Perfumes; practical soapmaker and perfumer preferred; wages 20s. to commence with. State full particulars and age to 48/96, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

A COMPETENT Assistant.—A young man capable of taking entire charge of a good Mixed business (indoors); hours 8 to 8, Friday 8.30, Saturday 10.30; weekly half-holiday 2 weeks out of 3; no Sunday duty; qualified preferred. Full particulars to Parker & Co., Chemists, York.

QUALIFIED Assistant wanted, in good-class cash Retail and Dispensing business; Sunday duty almost *nil*; plenty of time allowed for recreation; indoors preferred. Please send full particulars, with references, to 121/4, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SHORTLY: a trustworthy Assistant, from 25 to 30; one able to Prescribe and Extract preferred; qualification not absolutely necessary if experienced and of good character; state age, height, and send photo; healthy, comfortable place for suitable person. Jackson, Chemist, Blackpool.

IMPROVER or Junior Assistant (outdoors) wanted, early in May; one with 3 or 4 years' experience and accustomed to country trade (Oils, Paints, &c.); hours 8.30 to 8.30, Saturdays 10.30; no Sunday duty; state age, height, salary required, &c. W. A. Wood, Chemist, Clayton, near Bradford, Yorks.

EARLY in May, a competent Assistant, of good address, in a good-class Retail and Dispensing business; indoors; must be trustworthy and have good references. Apply, stating full particulars of experience, age, height, salary required, &c., enclosing photo, to D. T. Evans, The Parade, Margate.

JUNIOR Assistant wanted in a quiet village-town in Norfolk; Mixed business; Stationery, but no Oils, Colours, or Grocery; easy hours; close on Sundays; must be an abstainer, and well recommended; salary £20 per annum, with board and lodging; enclose photo. 166/17, Post Office, Reepham, Norfolk.

WANTED, immediately, a qualified Assistant (indoors); one with a knowledge of Homœopathic business preferred; arrangements might be made with one wishing time for study. Apply, stating age, references, and required salary, to "Similia," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR Assistant (about 22) for Light Retail business, and having some knowledge of Prescribing; 1 only kept; indoors; please state particulars of age, height, experience, when disengaged, salary required, and enclose carte (to be returned), or arrange for personal interview. A. Higgs, Chemist, Kingston-on-Thames, S.W.

IMPROVER or Turnover, for a select Retail and Dispensing business; abstainer preferred; state full particulars (enclosing photo); also a vacancy for an Apprentice; comfortable home, moderate premium. Apply, Frederick James Lee (Local Secretary, Pharmaceutical Society), Dispensing Chemist, Tontine Street, Folkestone.

WANTED, immediately, qualified Assistant, for good business, best part of Liverpool; will be wanted to take charge of Branches occasionally; good references required. Also Manager for Branch; qualified; must be an energetic and pushing man. Full particulars, R. T. P., c/o Mr. Jno. Thompson, L.P., Hanover Street, Liverpool.

WANTED, at once, a smart energetic Counterman used to brisk business; must be good salesman and understand business thoroughly; hours 8 to 8, Saturdays till 10; no Sunday trade; outdoors. Apply, stating age, height, experience, and enclose photo, to "Salesman," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS WANTED—Cont.

MANAGER, Assistant, or Locum-tenens; experienced and qualified; single; aged 36. H., 74 Railton Road, Herne Hill, S.E.

WANTED, situation with Chemist or Photo Chemist (outdoors); good refereuces. F. A. De Saulles, 3 Villa Road, Brixton, S.W.

MANAGER, Permanent or Locum; married; 30 years' experience; good Extractor. Williams, 4 Cromwell Street, Gloucester.

MANAGERSHIP Branch, Locum; qualified; married; experienced; Extractor. "Manager," 38 Strand, Exmouth, Devon.

WHOLESALE; youug man seeks berth; 5 years' Retail experieuce, London House. Eustace, 274 Portobello Road, Nottiug Hill.

UNQUALIFIED; outdoors; 24; 5 ft. 9½ in.; West-end experience; good references. Baker, 66 Goldhawk Road, Shepherd's Bush, W.

AS Assistant or Dispenser; 6 years' experience; disengaged; outdoors. F. W. Turton, Dr. Turton, Plumpton House, Denby, Huddersfield.

LOCUM-TENENS, or Dispenser to a Surgeon, or Assistant to a Chemist; disengaged. Address, W. B., 4 Aston Street, Birmingham.

JUNIOR; aged 19; 6 years' experience good-class Mixed trade; Dispensing; disengaged May 15. A., 118 Derby Street, Burton-on-Trent.

AS Junior and Improver (21); 6 years' experience; good reference from present employer. Address, F. W., 193 Gt. Norbury Street, Hyde.

TRAVELLER, knowing England, Ireland, and Wales thoroughly, is open to engagement at home or abroad. M., 107 Fulham Road, S.W.

LOCUM or Assistant; unqualified; good references; tall; aged 23; disengaged; North preferred. F., c/o Dr. Wood, Killiughall, Ripley, Yorks.

ASSISTANT or Manager, with Minor and Hall qualifications; good reference; Lancasbire preferred. Huuter, 10 Douglas Street East, Wigan.

JUNIOR (22) seeks situation, London preferred; time for study; 9 years' experience; abstainer. Jenner, 14 Hawke Street, Barrow-in-Furness.

MANAGER, or any position of trust; exceptional references; qualified. 166/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

IMPROVER or Junior; 5 years' experience; moderate salary (indoors); abstainer; aged 25; good reference. "Alpha," c/o J. S. Jones, Esq., Saffron Walden, Essex.

SMART business man as Manager; good Prescriber, Extractor, and references; qualified; permanency. Particulars, M., 53 Upper North Street, Poplar.

LABORATORY or Store Manager; Pharmaceutical Chemist; 26; first-class references. 168/2, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT; unqualified; 26; 5 ft. 10½ in.; good knowledge of all brauches; 3 years in last situation; good referenees. Ernest, 19 Middle Street, Worcester.

CHEMIST (disengaged) desires temporary engagemeut as Locum-tenens, or Dispenser to Surgeon; satisfactory references. S., 2 Raglan Street, Lowestoft.

TRAVELLER.—Gentleman, aged 26, lately representing large manufacturing firm; good connection; highest reference. L., Rose Lodge, Westbury-on-Trym, Bristol.

PHARMACIST seeks employment (half-day) as Dispenser, Bookkeeper, or in Laboratory. "F.C.S." Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER; qualified; married, 1 child; aged 40; good references; can Extract Teeth; good Prescriber. Address, H. G., c/o Messrs. Gaunau, 67 St. John Street Road, E.C.

TEMPORARY or otherwise; 6½ years in last berth as Manager of Branch; aged 30; East Coast preferred; good references. H. Taylor, Neyland Terrace, Neyland, Pembrokeshire.

DISPENSER or otherwise; 6 years' experience; good references; outdoors; stores; Tunbridge Wells or Brighton; disengaged in month. Address, T. J., 36 Castle Street, Brighton.

GENERAL Assistant; unqualified; country and outdoors preferred; good referenees; moderate salary; total abstainer; varied experience; middle age. "Cetaceum," Hearon, Squire & Co., 38 Southwark Street, London, S.E.

UNQUALIFIED (23); tall; good Prescriber; town and country experience; accustomed to wholesale; would prefer manufacturing business; reading for Minor. "West Riding," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT (25) requires situation; Branch Manager (outdoors) or Dispenser to Doctor; good Dispenser and Prescriber: 10 years' experience; unqualified; excellent references; willing to buy shares in a good firm. Johnston, c/o Ison (Limited), Wellington, Salop.

PART or full time; good experience (23). "Ethyl," 37 Trinity Square, Borough.

LOCUM or Permanent; disengaged; aged 27; good Extractor. 2 Horton Street, Lewisham.

ASSISTANT (26); Prescriber; disengaged; good reference. "Statim," 130 Islingword Road, Brighton.

MANAGER; disengaged; qualified; aged 30; good references. A. J. H., 12 Chesterfield Street, King's Cross, W.C.

AS Manager or Locum-Tenens; qualified; aged 36. Address, W. P., Office of the CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER, with view to succession; good branch or small business: 26; competent. "Idris," 23 Dunstan Street, Haggerston, N.

AS Assistant; Mixed Country business preferred; aged 33. 169/3, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

JUNIOR Assistant; unqualified; good Dispenser; West-end experience; steady. 159/11, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER, with view to Partnership or succession on easy terms; small capital; good all-round experience; Minor; 35; tall. 157/34, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MANAGER or Locum.—Qualified; age 37; unmarried; good reference; disengaged; varied experience; out-door preferred; state hours; salary required moderate. Address, "B," Montrose, Kingswear, Devon.

WHOLESALE. — Essential Oils, Essences, Gums, Dyes, &c.—An experienced Warehouseman, accustomed to take charge, wishes re-engagement. "Otto," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading which can be obtained on application.

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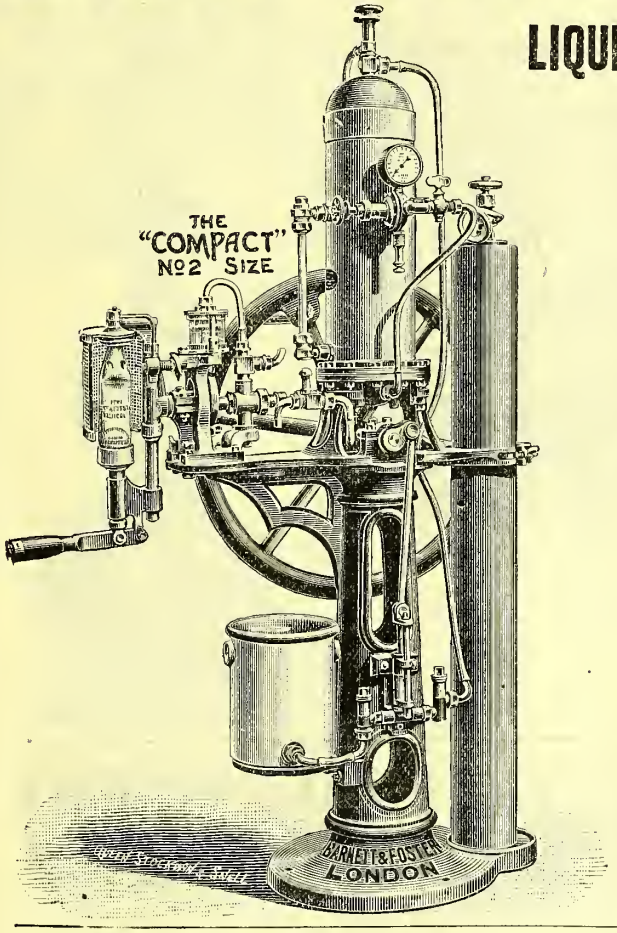
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And has sufficient Gas to manufacture about 18 gross of highly-charged Soda Water (10-oz. Bottles), or double this quantity of splits.

These Machines occupy little space, and are ready for use immediately! They require no fixing! Are self-contained and produce soda water, lemonade, &c., of the highest class and greatest purity, at a minimum of cost.



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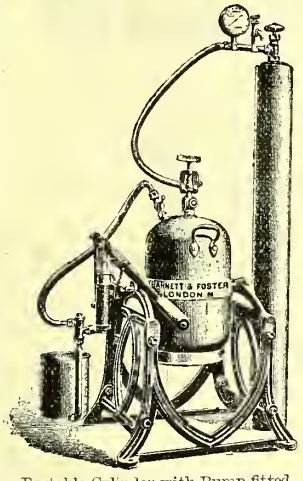
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Flexible Pipe, Pressure-gauge, Safety-valve, & Connections	3	3	0
If fitted with Pump for pumping the water into the cylinder (and so avoiding waste of gas) extra	5	5	0

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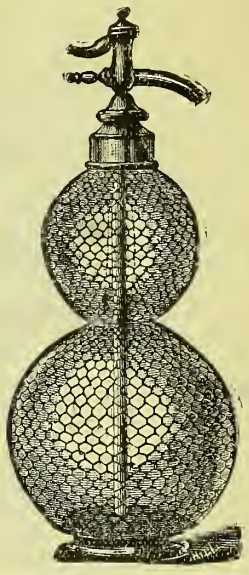
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1	2	3	4	5	8 pint.
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Including two funnels and stopper for charging.

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Condal	—	14/-	—	—	50	56/-
Contrexeville	9/-	—	50	35/-	—	—
Eltwick	24/-	15/-	—	—	—	—
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Friedrichshall	13/-	10/-	25	25/-	50	40/-
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Hunyadi-Janos	15/-	13-	25	30/-	50	50/-
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Levico	—	15/-	—	—	—	—
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Natural Sparkling Table Water.

This Table Water is drawn from the deep springs situated near BAD HOMBURG, in Germany, the annual health resort of H.R.H. the Prince of Wales, and is the table water used by all visitors to Homburg.

It is proved by the analyses of Sir Charles Cameron and Prof. Wanklyn to be ABSOLUTELY PURE. It is aërated only with the natural gas from the Rosbach Springs.

It contains no solid ingredients or earthy salts like other natural or so-called natural, mineral waters. This means an entire absence of salty taste.

Rosbach Water enriches the flavour of good wine, whisky, brandy, champagne, or any vintage claret instead of suffocating the same, which is usually the case with other table waters on account of their salty constituencies.

Rosbach Water taken pure is a most refreshing and pleasant drink, soft and mellow, and of a beautiful bright, sparkling appearance, and exceedingly soothing to the palate.

A bottle of Rosbach Water after being opened, partly emptied, and left corked up until the next day, will be found as bright and sparkling, retaining its full flavour and taste as no other water has ever proved to be.

Rosbach Water, being alkaline, will be found invaluable in cases of Dyspepsia, Gout, and Torpid Liver.

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Firms are invited to apply for a Sample Case for trial, which will be delivered to any address free of charge.

23

SEASON 1893.

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Of Finest Flavour and Quality, and specially suitable for the Preparation of Orange Quinine Wine.

SEVEN PRIZE MEDALS AWARDED.

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Perfect Action. Full Strength. Best Workmanship. Thoroughly Reliable. Well Tested. Metal Guaranteed Free from Lead. Lowest Prices consistent with First Quality.

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The "MAJOLICA" Porcelain Lined Heads

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Metallic contamination of the waters utterly impossible. Vide *The Lancet*, 30 April, 1890, and other scientific opinions.

SELTZOGENE CHARGES AT SPECIAL LOW RATES. Send for List.



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THE BRITISH SYPHON MANUFACTURING CO.

Offices: 2B GRESHAM BUILDINGS, GUILDHALL, LONDON, E.C.

PETER TYRER'S SAUCES

WORCESTER, READING, HARVIE, YORKSHIRE, AND "BOROUGH" KETCHUP.

SILVER MEDAL.

		Per gross.	Extra Quality.
1d. Sample Bottles,	dozen parcels	5/3	6/3
" "	½-gross boxes	5/9	6/9
1d. Giant "	dozen parcels	6/6	8/6
" "	½-gross boxes	7/-	9/-

		Per gross.	Extra Quality.
½ Bottles, flat or round, reputed ½ pints		16/-	26/-
½ " " " pints		26/-	38/-
1 Pint Imperial, round stoppered bottles		52/-	62/-
12½-Gallon Casks (*casks free*)	each	20/-	32/-

ROYAL CAFE SAUCE, a Rich Fruity & Exquisite Flavour.

Square Glass Stoppered Bottles, containing nearly ½ pint Imperial, 42/- per gross. Sample Bottles at 7/- per Gross.

MANUFACTORY — 30 SOUTHALL PLACE, LONG LANE, BOROUGH, LONDON, S.E.

CHIEF SCOTCH AGENCY—West Nile Street, GLASGOW.

BRAND & CO.'S MEAT JUICE.

B. & CO. beg to call the attention of their numerous friends and the Trade generally to the above article, recently introduced by them, the essential feature of which is the juice of the finest English Meat in its natural state, embodying a fine aroma and flavour, and containing the albumen uncoagulated, together with the other nutritive properties, ready for immediate assimilation.

In Bottles, Wholesale, 28/- per doz. Handsome Tablets free on application to

BRAND & CO., MAYFAIR, W.

NONE GENUINE WITHOUT THE

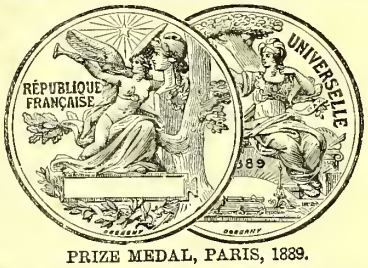
TOWER TEA



HIGHEST AWARD, PARIS, 1889.

Analysis by the "LANCET," December 20th, 1890:—

"We have submitted to examination the Teas of the Great Tower Street Tea Company (Limited). They all yield liquors which are generous to the taste, and of full strength and vigour. The results of our analysis indicate the purity and genuineness of the samples."



REGISTERED TRADE MARK.

Where Vacancies exist, Agencies are appointed by

PRIZE MEDAL, PARIS, 1889.

THE GREAT TOWER STREET TEA CO., LIMITED

5 JEWRY STREET, LONDON, E.C.

PEPSALIA.

The New Improved and Perfected Style. White and Odourless.

Guaranteed to keep good indefinitely in all climates.

1/- size	...	...	...	...	...	Per dozen,	10/-	...	...	...	...	Per gross,	105/-	net.
2/- "	...	...	...	...	...	"	20/-	...	...	...	...	"	210/-	"
5/- "	...	...	...	...	...	"	50/-	...	...	...	...	"	525/-	"

PUMILINE.

Essence	1/6	...	...	Per dozen,	15/-,	less	10	per cent.	Liniment	1/9	...	...	Per dozen,	20/-, less 10 per cent.
"	2/6	...	...	"	24/-	"	10	"	Jujubes	1/1	...	...	"	10/6 " 5 "
Extract	1/-	...	...	"	9/-	"	10	"	"	2/3	...	...	"	20/- " 5 "
Ointment	1/1½	...	...	"	11/-	"	10	"	Dry Inhalers, complete				1/6	" 14/- " 10 "
"	2/9	...	...	"	27/-	"	10	"						

G. & G. STERN, 62 Gray's Inn Road, LONDON, W.C.

MASON & CO.'S, LIM.

PREPARATIONS.



TRADE MARK.

Essence of Beef	Meat Juice
Essence of Chicken	Malted Food for Infants
Essence of Veal	Extract of Malt
Essence of Mutton	"O.K." Bouillon
Beef Tea Jelly	"O.K." Sauce
Concentrated Beef Tea	"O.K." Relish
Meat Lozenges	"O.K." Curry Powder

SEND FOR PRICE LIST.

417 & 419 KING'S ROAD, CHELSEA, LONDON, S.W.

The Sanitary Institute of Great Britain has always given the Highest Awards, when tested against other so-called Disinfectants, to

CALVERT'S No. 5 CARBOLIC

Which is of the quality adopted as "Standard" by the British and German Governments after bacteriological tests. Unscrupulous statements that other disinfectants are superior to genuine Carbolic Acid should be treated with the distrust they deserve.

The Chemist and Druggist, July 30th, 1892, says:—"Although the superiority of Carbolic Acid as a Disinfectant has frequently been challenged, there is no doubt that it continues to hold the first place in public favour."

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F. C. CALVERT & CO., MANCHESTER.

Awarded 60 *Gold and Silver Medals and Diplomas.*

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G.B. KENT & SONS
BRUSH FACTORIES
LONDON.
A.D. 1777.

BUY KENT'S BRUSHES.

See pp. 85-88, Winter Issue; also Diary, 1893, pp. 437-40.

EIGHT PRIZE MEDALS AWARDED.

GOODALL'S HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.
Most Delicious Sauce in the World. Bottles, 6*d.*, 1*s.*, & 2*s.* each

GOODALL'S BAKING POWDER.
The Best in the World. 1*d.* Packets; 6*d.*, 1*s.*, 2*s.*, and 5*s.* Tins.

GOODALL'S EGG POWDER.
One 6d. Tin is equal to 25 eggs. In 1*d.* Packets; 6*d.*, 1*s.*, and 5*s.* Tins.

GOODALL'S CUSTARD POWDER.
Delicious Custards without Eggs. In Boxes, 2*d.*, 6*d.*, & 1*s.* each.

GOODALL'S BLANCMANGE POWDER
Delicious Blancmange in a Few Minutes. Boxes, 6*d.* and 1*s.* each.

GOODALL'S QUININE WINE, B.P.
Best Tonic yet Introduced. Bottles, 6*d.*, 1*s.*, and 2*s.* each.

GOODALL'S GINGER-BEER POWDER.
Makes the Best Ginger-Beer. Packets, 3*d.* and 6*d.*

GOODALL'S BRUNSWICK BLACK.
Painting Stoves, Grates, Iron, Tin, &c. 6*d.* & 1*s.* Bottles.

GOODALL'S LAVENDER WATER.
Rich and Lasting Perfume. Bottles, 1*s.*, 2*s.*, and 5*s.* each.

GOODALL'S PLATE POWDER.
Polishing and Cleaning all Metals. Boxes, 6*d.*, 1*s.*, and 2*s.*

GOODALL'S JELLY SQUARES.
Make a Delicious and Nutritious Jelly. In ½-pint, 1-pint and Quart Boxes, 3*d.*, 6*d.*, and 1*s.* each.

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PATENT MEDICINES AND DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists Sundries &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

TO THE RETAIL CHEMIST

YOU can secure a supply of any of the PHARMACEUTICAL PREPARATIONS of

JOHN WYETH & BROTHER,

MANUFACTURING PHARMACEUTICAL CHEMISTS,

PHILADELPHIA, U.S.A.,

OF YOUR WHOLESALER, at either of the following DISTRIBUTING AGENTS:—

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F. H. PROSSER & CO., 14 Ethel Street, BIRMINGHAM,
And at the LONDON OFFICE, 30 SNOW HILL, E.C.

PHYSICIANS are having their attention called to these Preparations; they are being introduced into **HOSPITALS**, and you will need a supply. Send to the London Office, or to either of the Distributing Agents, for a copy of our **CATALOGUE** and **PRICE LIST**, which gives you full descriptive statements of the various Pharmaceutical Preparations, including

COMPRESSED PILLS (OR POWDERS).

These are readily soluble and diffusible.
They speedily disintegrate.
They are more easily swallowed.
They are smooth, glossy, and elegant in appearance, and reliable and quick in action.

SUGAR-COATED COMPRESSED PILLS (OR POWDERS).

The coating is a thin film of perfectly pure white cane sugar, so delicate that it does not appreciably increase the size, and entirely obviates the only objection that has ever been urged against our Compressed Pills.

SOLUBLE COMPRESSED HYPODERMIC DISCS.

Convenient in size, and they are absolutely accurate in dose. There is a perfect preservation of the drug, and ready and entire solubility, combined with certainty and rapidity of action.

COMPRESSED OPHTHALMIC DISCS.

For the convenient, extemporaneous, and efficient treatment of the various affections of the eye. Portable in shape, readily soluble, non-irritant, and free from decomposition.

WYETH'S BEEF JUICE.
WYETH'S DIALYSED IRON.
WYETH'S ELIXIR DIGESTIVE FERMENTS.
WYETH'S PEPTONIC PILLS.
WYETH'S PEPSIN, PANCREATIN, &c.

CORRESPONDENCE SOLICITED.

WILLIAM F. HORTON, Resident Representative of **JOHN WYETH & BROTHER, 30 SNOW HILL, LONDON, E.C.**

VINACOCA

Embracing the Therapeutic Properties of the **COCA** *Plant, blended with the best Madeira.*

COCA FOR TROUBLESOME THROATS.

VINACOCA is a direct stimulant of the most active kind, supporting life in a manner almost miraculous, without disturbance of the vital functions. For the voice, a wineglassful before any ordeal is sufficient. Its effect upon the vocal cords is surprising, and of great value to Public Speakers, Professional and other Singers, and Lecturers.

The VINACOCA is carefully prepared from the best Coca Leaf only. (No addition of Cocaine.)

ONLY ONE WINE (CHOICE MADEIRA)
ONE QUALITY (A 1)
ONE PRICE
} **THE BEST & CHEAPEST ON THE MARKET.**

Sold in Bottles at 3s. 6d. each, or 40s. per dozen, Retail. Usual Trade Discount. Pamphlets for distribution, carriage paid.

COCA is prepared in various forms: **COCA LOZENGES, COCA TABLETS, COCA ELIXIR, COCA TEA, COCA CHOCOLATE, STAMIN** (Coca and Beef Extract), **COCA TOBACCO, &c.**

MENTHOLIN (PATRONISED BY ROYALTY) PREVENTS INFLUENZA.

Is a Perfect Remedy for Coriza or Cold in the Head. Highest opinions from Public and Press.

Retail Price, 1s. 1½d. per Box.

FULL PARTICULARS FROM

THE FRENCH HYGIENIC SOCIETY,

6 CONDUIT STREET, REGENT STREET, LONDON, W.

HALL'S COCA WINE

A HIGH-CLASS MEDICATED WINE AT A REASONABLE PRICE

Is being recommended by hundreds of BRITISH Medical Men.

Is highly recommended by "The Lancet," "British Medical Journal," &c., &c.

BEARS NEARLY 50 PER CENT. PROFIT.

IS MOST PALATABLE.

SELLS WELL.

ALL THE WHOLESALE HOUSES STOCK IT.

STEPHEN SMITH & Co, BOW, LONDON.

PHOTOGRAPHIC "TABLOIDS."

(PREPARED BY B., W. & CO.)

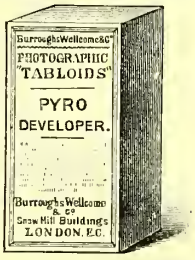
PORTABLE, ACCURATE, ENERGETIC, LASTING.



These "Tabloids," being prepared by dry compression, do not decompose, and retain in their fullest activity the qualities of the various salts of which they are composed, and so, in contradistinction to prepared solutions, which undergo oxidation, decomposition, and other changes, and are inconvenient of transport, we have uniformity, reliability, and portability.

As Shelf Space in most dark-rooms is at a premium, "Tabloids" will be simply invaluable, one little bottle taking the place of five or six bulky containers of Pyro, Bromide, Sulphate, &c., &c., thereby effectually relieving the overweighted and overstocked shelf of the busy amateur, while pestle and mortar, scales and weights, and glass measures are practically uncalled for.

Especially recommended for outfits for Travellers, Scientists, Explorers, and others.



LADY PHOTOGRAPHERS LIKE THEM.

"Tabloids" work uniformly well with almost every brand of Bromide Plates, Bromide Papers, and Lantern Plates, and tone ready sensitised, albuminised, and printing out papers with general satisfaction.

PRICES TO THE TRADE.

PYRO DEVELOPER, in Bottles of 25 and 70, 4/6 and 9/- per dozen.
QUINOL DEVELOPER, in Bottles of 25 and 70, 4/6 and 9/- per dozen.
EIKONOGEN c. QUINOL, for Transparencies, Lantern Plates, and Bromide Papers, 15 and 40, 4/6 and 9/- per dozen.
ACCELERATOR "TABLOIDS," for Pyro and for Eikonogen c. Quinol, Bottles of 30 and 100, at 3/- and 6/6 per dozen.
GOLD TONING "TABLOIDS," 8/- per dozen Tubes.
RESTRAINER "TABLOIDS" (1 gr. Bromide of Potassium or Bromide of Ammonium), in Bottles of 50 and 125, at 3/- and 6/6 per dozen.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

NET CASH WITH ORDER.

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PERFECTLY PURE.

FIT FOR ANY PURPOSE.

PURE ORANGE WINE.

ST. ANDREW'S DISTILLERY 49 CLERKENWELL RD., E.C.
GEORGE PHILLIPS & C° LONDON

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AT LOWEST PRICES.

Special Terms to Large Buyers.

PURE GINGER WINE.

FOREIGN WINE AND SPIRIT MERCHANTS.

SOLE PROPRIETORS OF THE FAMOUS "GLENALLAN" PURE MALT WHISKY.

Per doz. **42/-** Per doz. THE CREAM OF SCOTCH BLENDS. Per doz. **42/-** Per doz.

BOORD & SON,

DISTILLERS, FOREIGN WINE AND SPIRIT MERCHANTS, AND METHYLATORS,
ALLHALLOWS' LANE AND BARTHOLOMEW CLOSE, LONDON, E.C.

Quotations for **S.V.R.** Methylated Spirit and Finish on application.

FINEST ORANGE WINE FOR QUININE.

JAMES BURROUGH, S.V.R. 56 o.p. 60 o.p

CALE ST., CHELSEA, S.W.

and Methylated Spirit

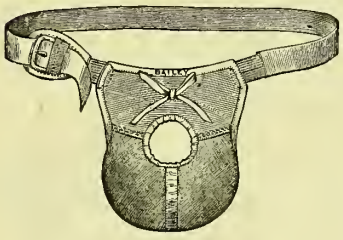
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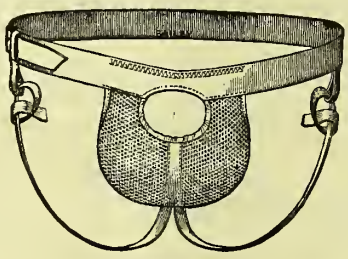
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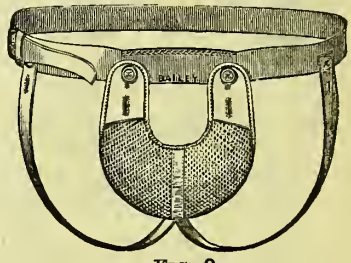
A GREAT SUCCESS!!

BAILEY'S SUSPENSORY BANDAGES.

A. B. C. SYSTEM.


Fig. 1.


Fig. 2.


Fig. 3.

Cabinet of 2 dozen assorted, 30/- USUAL DISCOUNT.

TESTIMONIAL.

The Foregate, WORCESTER.

GENTLEMEN,—Please repeat our last order for "Suspensory Bandages." We think your idea of arranging the sizes and qualities by the use of numbers and letters a very excellent one, as it is most convenient to the Chemist in ordering, and we find our customers make use of your method. It brings us many repeat orders.

Yours faithfully, ANDERSON & VIRGO.

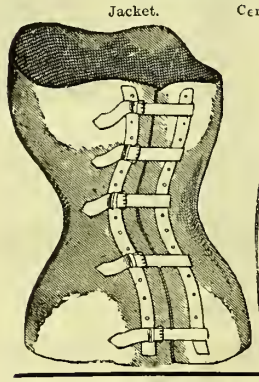
W. H. BAILEY & SON, 38 OXFORD ST., LONDON, W.

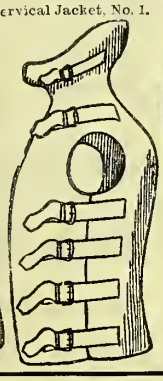
TELEGRAPHIC ADDRESS—"BAYLEAF LONDON."

COCKING'S ADAPTABLE PORO-PLASTIC JACKETS AND SPLINTS.

Patentee and Sole Manufacturer, J. T. COCKING, PLYMOUTH.

Jacket. Cervical Jacket, No. 1. Cervical Jacket, No. 3.







JACKET
(In cases of slight deformity).

INSTRUCTIONS FOR MEASUREMENT.

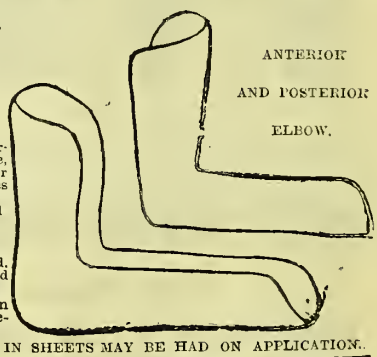
Circumference at axilla.
" waist.
" hips.
Length from axilla to great trochanter.

In severe angular cases, circumference over apex of curve, position of ditto, and contour should be given; in lateral cases a description of the case.
In all cases it must be stated if for male or female.

CERVICAL JACKETS.

Same measurements required, and circumference at neck, and length from neck to axilla.

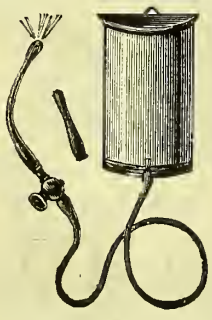
Any part of the Jacket can in the process of manufacture be left soft.



A FULL LIST OF SPLINTS AND PORO-PLASTIC IN SHEETS MAY BE HAD ON APPLICATION.

HYDROSTATIC DOUCHES AND ENEMAS.

THE CHEAPEST AND BEST IN THE MARKET.

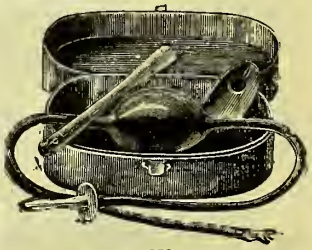

CAN DOUCHE. No. 571.

DOUCHES.

	EACH
No. 571A. ENEMA DOUCHE, for hanging or standing up, consisting of two-pint Bronzed Canister, fitted with 6 ft. best Black Tubing, Vulcanite Stopcock, Rectum and Vaginal Tubes to plug on, in a card box (as Fig. 571) ..	4/3
No. 571. Ditto, the same, but with three-pint Canister	4/6
No. 573. Ditto, the same, but with five-pint Canister	5/
No. 574. Ditto, the same, but with eight-pint Canister	6/6
No. 575. Ditto, the same, but with two-pint Nickel Tin Canister	6/
No. 576. Ditto, with three-pint Canister instead of two-pint	7/
No. 571B. Ditto, three-pint Bronze Canister, fitted with 6 ft. Grey Tubing, Vulcanite Stopcock, and Glass Vagina Pipe (**A Cheap Line**)	2/9
No. 568. Ditto, Family Syringe, all Rubber, with six Vulcanite Jets	9/
No. 570. Ditto, for Travelling, to close in hinged Bronze Case	5/6

ENEMAS.

	DOZEN
No. 558A. Enema, seamless, in one continuous piece, without metal joints, black, red, or green, in oval leather and cloth boxes, complete as illustration	33/
Ditto, in Cedar boxes	30/


No. 558A.

All other Current Lines in Stock at very Low Prices. Subject to Discounts, which may be had on application.
Special Terms for Shippers and large quantities. Price List Post Free upon Application to

F. SCHUTZE & CO., Manufacturers, 36a Aldersgate St., London, E.C. {*Telegraphic Address:* "Odorators London."}

"LANOLINE"

Every Chemist

SHOULD USE

"LANOLINE" AS AN OINTMENT BASE,

AS IT

never turns rancid

admits of the admixture of any quantity of water;

confers stability and permanence on ointments prepared with it.

UNGUENTUM LANOLINI

is an Ointment

WHICH CONSISTS OF

"LANOLINE" and 30 per cent. of Soft Paraffin B.P.

UNGT. LANOLINI is comparatively inexpensive.

UNGT. LANOLINI is non-sticky.

TOILET "LANOLINE."

A SUPERIOR PREPARATION FOR THE SKIN.

IN TUBES CONVENIENT FOR USE IN

SUNBURN, CHAFING, CHAPPING, REDNESS, AND WRINKLING OF THE SKIN.

"LANOLINE" and its preparations, Soaps, Pomades, &c., can be obtained from

BURROUGHS, WELLCOME & CO.

SNOW HILL BUILDINGS, LONDON, E.C.

ARMOUR'S

CHICAGO,
AND
59 & 60 TOOLEY STREET,
LONDON, S.E.

WE KILL NEARLY 2,000,000 PIGS PER ANNUM.

We don't make
PEPSIN WINE at 1/8 per pint,
or
ACID. GLYC. PEP. at 1/10 per lb.
BUT YOU CAN
from Armour's
GLYCEROLE PEPSIN.
You don't want to pay 10*s.* to 12*s.* for what you can make for 1*s.* 10*d.*
1-lb. Bottles, 6*s.* 3*d.*
1-gall. (U.S.) Jugs, 32*s.*
Also,
Glycerole Pancreatin.

PURE
PEPSIN TABLETS.
3 GR.
Each Case now bears an attractive label, with the words:
"ARMOUR'S
PURE PEPSIN TABLETS
FOR INDIGESTION."
Bottles of 20 Tablets, 8*s.* 6*d.* per doz.
" 75 " 25*s.*
1-lb. Tins .. .. 32*s.*

PHARMACEUTICAL

Peptonising Tablets.
For the predigestion of foods.
Recipes supplied with each tube.
Tubes of 15 tablets, 1 doz. in a case, 7*s.* 6*d.* per case. 1-lb. tins, 10*s.* 6*d.*

Pure Pancreatin.
1-oz. bottles ... 3*s.* 6*d.*
1-lb. tins ... ... 32*s.*
Retains the power of all the pancreatic ferments.

PEPSIN
1:2,500 Test.
(*a*) Insoluble Powder. Non-hygroscopic.
For Pill or Powder.
Makes Pepsin P.B. at 11*d.* per oz.
See our Formulary.
(*b*) Scale Soluble.
(*c*) Powdered Scale "
For liquid forms.
1-oz. Bottles .. .. .. 3*s.* 6*d.*
1-lb. Tins .. .. .. 32*s.*

MAILED FREE.
"Armour's Formulary"
Of Digestive and Medicinal Preparation.
"Culinary Wrinkles"
AND
Attractive Booklets
FOR DISTRIBUTION TO MEDICAL MEN.

5,000 TEST.
OUR NEW PEPSIN
GRANULAR.
INODOROUS.
NON-HYGROSCOPIC.
READILY SOLUBLE.
Combines the good points of both soluble and insoluble
PEPSINS.
USE ⅛ grain in place of 1 grain Pepsin, P.B.
1-oz. bottles ... ... 7*s.*
1-lb. tins ... ... 64*s.*

NUTRIENT WINE
OF
Beef Peptone.
PURE PREDIGESTED BEEF: HIGH-CLASS SHERRY.
A Real Food, its sale requires No Wine Licence.
16-oz. Bottles, 4*s.*; per doz., 39*s.*
Samples for Medical Men, and special pamphlets with each case.

PRODUCTS

ESSENCE
OF
PEPSIN.
A finely flavoured Fluid Pepsin of great activity.
THE LANCET says: "A distinct advance on ordinary preparations of this class."
4-oz., 2*s.*; 18*s.* per doz.
8-oz., 3*s.* 6*d.*; 33*s.* "
SELLS WELL.
PAYS WELL.

EXTRACT
OF
BEEF.
PRIME BEEF.
NO BURNT FLAVOUR.
NO CHEMICAL TASTE.
PREFERRED BY ALL GOOD COOKS.

ARMOUR'S PRODUCTS ALL PAY THE RETAILER A LIVING PROFIT.

ALL THE LEADING WHOLESALERS STOCK THEM.

SOLUBLE "TABLOIDS"
OF
COMPRESSED DRUGS.

THYROID GLAND "TABLOIDS."

WE have for some time past prepared, at the request of several physicians, various pharmaceutical products of the sheep's fresh Thyroid Gland for trial in clinical practice, and we are informed by them that the administration of Thyroid Gland "Tabloids" is preferable to the method of feeding with the crude glands or the extracts. These "Tabloids" are not prepared with extractive substances, but consist of the dried gland, each "Tabloid" being equivalent to 5 grains of the fresh moist lobe.

The glands (each attached to a section of the trachea) are delivered to us within three hours of the animal being slaughtered; they are carefully dissected, sliced, and examined for cysts and other morbid formations, all diseased lobes being discarded. The glands are carefully dried at a very low temperature; they are then pulverised and compressed lightly into "Tabloids."

Competent physiologists inform us that as the active substances may be either ferments, globulins, or albumoses, our "Tabloids," being made of the entire glandular substance, should prove eminently satisfactory.

℞ "Tabloid" Thyroid Gl., 5 gr. (B., W. & Co.).

The Advantages of the Thyroid Gland "Tabloids" are :—

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FOR REPORTS OF THYROID MEDICATION
In the treatment of

Myxœdema, Sporadic Cretinism, Goitre,

And other ALLIED DISEASES, see the following Literature:—

Dr. Vessale ("Ctblatt. f. d. Med. Wiss," 1891, 174): TREATMENT OF DOGS AFTER THYROIDECTOMY.
Dr. R. Murray ("Brit. Med. Journal," 1891, ii., 797): TREATMENT OF MYXŒDEMA.
Dr. M. Muklen ("Year-book of Treatmeut," 1891, 219): THYROID GRAFTING IN MYXŒDEMA.
Mr. Hurry Fenwick ("Brit. Med. Journal," 1891, ii., 797): DIURETIC ACTION OF THYROID GLANDS.
Dr. Hector Mackenzie ("Brit. Med. Journal," 1893): TREATMENT OF MYXŒDEMA.
Report of Edinburgh Medico-Chirurgical Society: CASES OF MYXŒDEMA AND PSORIASIS (Dr. Byrom Bramwell). MYXŒDEMA (Drs. A. F. Davies, Lundie, and Murray). SPORADIC CRETINISM (Dr. John Thomson) SUCCESSFULLY TREATED WITH THYROID GLANDS. ("Brit. Med. Journal," Feb. 25th, 1893).
REVIEW OF THE SUBJECT. By Dr. P. Watson Williams ("Medical Annual for 1893," Section for New Treatment, just issued).

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	No.
Aconitiue Nitrate Crystalline, 1-260 gr.	(36)
Apomorphine Hydrochlorate, 1-10 gr.	(19)
Apomorphine Hydrochlorate, 1-15 gr.	(51)
Atropine Sulpbate, 1-150 gr...	(15)
Atropine Sulphate, 1-100 gr...	(14)
Atropine Sulphate, 1-60 gr. ..	(13)
*Caffeine Sodio-Salicylate, ½ gr.	(43)
Cocaine Hydrocblorate, ½ gr...	(22)
*Cocaine Hydrochlorate, ½ gr...	(40)
*Cocaine Hydrochlorate, ¼ gr...	(54)
Codeine Phosphate, ¼ gr. ..	(44)
Colchicin, 1-100 gr.	(45)
*Cornutin Hydrochloride, 1-60	(53)
Curare, 1-12 gr.	(46)
Digitalin, Crystalline, 1-100 gr.	(30)
Ergotiniu Citrate, 1-100 gr. ..	(37)
Ergotinin Citrate, 1-200 gr. ..	(38)
Eserine Salicylate, 1-100 gr. ..	(39)
Homatropine Hydrochlorate, 1-250 gr.	(47)
Hydrarg. Perchlor., 1-60 gr. ..	(29)
Hydrarg. Perchlor., 1-30 gr. ..	(28)
Hyoscinc Hydrobrom., 1-200 gr.	(49)
*Hyoscine Hydrobrom., 1-75 gr.	(48)
*Hyoscyamine Sulph., 1-80 gr...	(31)
*Hyoscyamine Sulph., 1-20 gr...	(41)
Morphine Bi-Meconate, ½ gr...	(27)
Morphine Bi-Meconate, ⅓ gr...	(26)
Morphine Bi-Meconate, ¼ gr...	(25)

	No.
Morphine Bi-Meconate, ⅓ gr..	(24)
Morphine Hydrochlor., ¼ gr..	(55)
Morphine Sulphate, 1-12 gr...	(6)
Morphine Sulphate, ½ gr. ..	(5)
Morpbine Sulphate, ⅓ gr. ..	(4)
Morphine Sulphate, ¼ gr. ..	(3)
Morphine Sulphate, ⅓ gr. ..	(2)
*Morphine Sulphate, ½ gr. ..	(1)
Morphiue Sulphate, 1-12 gr. + Atropine Sulphate, 1-250 gr.	(12)
Morpbine Sulphate, ⅓ gr. .. + Atropine Sulphate, 1-200 gr.	(11)
Morphine Sulphate, ¼ gr... + Atropine Sulphate, 1-180 gr.	(10)
Morphine Sulphate, ¼ gr... + Atropine Sulpbate, 1-150 gr.	(9)
Morphine Sulphate, ⅓ gr... + Atropine Sulphate, 1-120 gr.	(8)
*Morphine Sulphate, ½ gr. + AtropineSulphate, 1-100gr.	(7)
Pilocarpine Hydrochlor., 1-10 gr.	(34)
Pilocarpine Hydrochlor., ½ gr.	(64)
*Pilocarpine Hydrochlor., ⅓ gr.	(33)
*Quiuine Hydrobromate, ½ gr.	(42)
*Sclerotinic Acid, ½ gr. ..	(21)
*Sclerotinic Acid, 1 gr. ..	(20)
*Sparteine Sulphate, ½ gr. ..	(56)
Strophanthin, 1-500 gr. ..	(52)
Strychnine Sulphate, 1-150 ..	(18)
Strychnine Sulphate, 1-100 ..	(17)
Strychnine Sulphate, 1-60 ..	(16)

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A weekly journal, supplied from the chief office in London to subscribers and persons connected with the trade only. Subscription, 10s. per year, payable in advance, including a copy of the Diary next published, and postage to any country in the world. Single copies, 4d. each. Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank (Limited)."

As an Official Journal

The Chemist and Druggist is supplied regularly to every member of the following Societies:—Pharmaceutical Society of Ireland, South African Pharmaceutical Association, Midland Pharmaceutical Association of New Zealand, Central Association of New Zealand, Otago Pharmaceutical Association, Pharmaceutical Society of Queensland, Pharmaceutical Society of South Australia, Pharmaceutical Society of Western Australia, and Tasmanian Pharmaceutical Society.

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IMPORTANT ANNOUNCEMENT TO COLONIAL MERCHANTS.

We have recently revised our foreign registers from special advices, and we intend to send a copy of the issue of April 29 to every non-subscribing chemist and dealer in druggists' goods whose name is on our lists (and we believe our manuscript directory is as nearly complete as possible), in South Africa, India, China, Japan, and the Straits Settlements, and throughout the West Indies.

We think wholesale and manufacturing firms willing to cultivate business in the countries named will do well to take advantage of the valuable opportunity thus offered.

As we are compelled to close for the press earlier than usual, the insertion of advertisements cannot be guaranteed unless we receive the copy on or before Tuesday next, April 25. For tariff, &c., apply to the publisher of The Chemist and Druggist, 42 Cannon Street, London, E.C.

Bailey's Toilet Company, Bedford, whose "Ivorine" has been before the trade for some time, are now putting up an "Ivorine Cream" and an "Ivorine Hair Balsam," in which the peculiar emollient properties of the original article are presented in elegant forms. They are also supplying a "Pearline" dentifrice in handsomely got-up boxes.

Summary.

An interesting case between makers of quinine bitters is reported.

The Royal College of Veterinary Surgeons have decided not to publish a Veterinary Pharmacopœia.

Dr. Rawdon Macnamara, an original member of the Pharmaceutical Society of Ireland, died last week.

We print the names of those who succeeded in passing the Major and Minor examinations at Edinburgh this month.

The meeting of the Executive of the North British Branch of the Pharmaceutical Society on Thursday is reported in this issue.

Mr. Horne, a Douglas chemist, is endeavouring to restrain by injunction an old assistant from commencing business in the town.

Mr. Goskar, a Belfast pharmacist, having died suddenly, an inquest has been held at which Dr. Whitla was able to assure the coroner that the death was natural.

The Pharmaceutical Society have again been defeated in an action against grocers for selling poisonous stamped medicines. This time their agent appeared to have mixed his purchases.

The Teddington Magistrates have refused to convict a hotel-keeper in respect to the sale of soda-water innocent of soda. We comment upon the pharmacopœial issues that such cases are raising.

The Censors of the Institute of Chemistry have drafted a series of declarations in regard to discreditable conduct on the part of their Fellows, to be voted upon at a meeting to be held on Thursday next.

The action of the Berlin publishers against "Thomas Holloway," in regard to the use of a picture, has been decided in favour of the plaintiffs on the points of law, and by agreement damages were fixed at 100*l*.

The Derbyshire County Council have under consideration a proposal to employ a skilled analyst and to provide him with a laboratory, instead of engaging outside chemists to carry out the Sale of Food and Drugs Act.

In an editorial note we call attention to the scandalous deterioration of the quality of ipecacuanha through large admixture of woody matter therewith. We also present the views of one of the principal importers of the drug.

The Philadelphia College of Pharmacy has elected a number of English chemists—some as honorary, others as corresponding members of the college. A pretty distinction between the merits of the respective gentlemen is thereby made.

The Chemists' and Druggists' Exhibition, which is to open at the Agricultural Hall on Saturday, has been approved by the Theatres Committee of the County Council, on the condition that not more than 5,000 people shall assemble in the hall at any one time.

The action brought against Messrs. Pears by a draper opposite their place in New Oxford Street, who alleged that his business was injured by their exhibition of lantern-pictures in the evenings, has been settled amicably, after the plaintiff's case had been stated.

At Swansea, a grocer has been summoned for selling as dandelion coffee a mixture which Dr. Morgan, the analyst, said was coffee and chicory. There was a sharp passage of arms between counsel for the defence and the analyst upon the method of analysis, and the result was the dismissal of the case.

Chemists in the West of Scotland have met and converted the Glasgow Association into one covering the West. Office-bearers were elected, and various matters were discussed on motion, including one asking the Pharmaceutical Society to co-operate with the Medical Council in regard to doctor's shops. Upon that Mr. G. R. Hill spoke very plainly, the result being that an amendment was carried.

English News.

The Editor is obliged to correspondents who send local newspapers containing items of interest to the trade. He will be further obliged if such paragraphs be marked in all cases.

Parental "Affection."

In the City of London Court on Friday, before Mr. Commissioner Kerr, Mr. James Way sought to have his son, Mr. Wm. Henry Way, chemist, Ludgate Hill, E.C., committed to Holloway Gaol for the non-payment of 13*s.* 6*d.* due to him. The plaintiff stated that his son was well able to pay the amount due. It was only disinclination. His son was until recently at Ludgate Hill, but he was now in business at Maryland Point, Stratford. He kept a servant, and when witness served his son with the process of the Court the latter put up his fists to strike him.

Mr. Commissioner Kerr said he had nothing to do with the family grievances of the plaintiff or the defendant. There was evidence of the defendant's ability to pay, and he made an order of committal for ten days against the defendant.

The Judicial Advice not Taken.

Mr. Commissioner Kerr disposed of the case of Farina *v.* Fernando in the City of London Court on Saturday, the first part of the case having been reported in The Chemist and Druggist three weeks ago. The plaintiff, Mr. J. A. Farina, of 9 Coleman Street, E.C., had applied to enforce payment of 6*l.* 1*s.* 10*d.* due to him from the defendant, Mr. Frank Fernando, chemist, manager of the Frank Fernando Drug Company (Limited), 3 Victoria Buildings, Victoria Station. When the case was last before the Court the defendant said he was unable to comply with the Court's order because his business did not pay, and that he only received 2*l.* per week. He had other debts to pay as well. This being the case, Mr. Commissioner Kerr said the legislature had provided that poor men as well as rich could have their affairs administered by the Court, and the system enabled the creditors to be paid equally, thus stopping the accumulation of costs.

The plaintiff on Saturday said the defendant had not availed himself of the opportunity which the Court had given him, but had consented to an order to pay 10*s.* down and 10*s.* per month.

Mr. Commissioner Kerr said if the defendant preferred to adopt that course he had no objection to carrying out the terms proposed. An order was therefore made in accordance with the defendant's offer.

Where the CO_2 Comes From.

Professor Dewar is delivering a course of lectures on the atmosphere at the Royal Institution just now, and in the first one referring to the constancy of the composition of the air, he said the question was asked why it was so stable considering that every moment the oxygen was being eaten up by fire and animal respiration and converted into carbonic acid. The older chemists, like Priestly, early hit upon one of the main reasons—namely, that growing vegetation under the influence of sunlight carries on the inverse process of breaking up the carbonic acid into oxygen and carbon. But quite lately an additional, but more recondite reason, had been discovered, namely, the decomposition of the carbonic acid by the salts in sea water. If the atmosphere became too heavily charged with carbonic acid, then the ocean carbonates absorbed it with the formation of bicarbonates; *vice versa*, they gave it out. Dealing with the limits of the existence of the atmosphere upwards, Professor Dewar said that fresh light had been thrown upon this uncertain question by the liquefaction and solidifaction of air. At a height of ten miles the temperature of the atmosphere was as low as—51° C. What would it be at fifty miles or 150 miles? Probably so cold that air could not exist in any condition so far up.

Galen Lodge of Freemasons, No. 2384.

This lodge, which was founded for the convenience of masonic pharmacists, and those seeking enlightenment in the mystic art, has for two years been growing and adding to its roll the names of men known in the pharmaceutical world. At its installation meeting on April 10 the following brethren were appointed to the offices—viz.: Bro. J. B. S. Lancaster, W.M.; Bro. H. W. Roach, I.P.M.; Bro. J. Hodgkin, S.W.; Bro. H. Mathews, J.W.; Bro. J. B. Mackey, treasurer; Bro. J. W. T. Morrison (the originator of the lodge), secretary; Bro. W. J. Rogerson, S.D.; Bro. R. Patchitt, J.D.; Bro. P. C. Maitland, D.C.; Bro. F. Bascombe, I.G.; Bro. Dr. Haskins, organist; Bros. W. Thomas and C. Butler, stewards. Amongst other members present were Bros. Dr. Paul (first W.M.), Professor Green, Messrs. M. Carteighe, Tanner, C. A. Blake, A. W. Gerrard, Dr. Startin, and W. Judd. Bros. Major Probyn, Col. Richardson (Leicester), T. H. W. Idris, L.C.C., H. N. B. Spink, W. K. Hopkin, and several others were unavoidably prevented from their usual attendance.

Carbolic-acid Poisonings.

On Saturday morning last, Mrs. Robinson, of Northumberland Road, Sheffield, drank some carbolic acid during her husband's temporary absence from the bedroom, from the effects of which she shortly afterwards died. The deceased lady had been subject to mental depression, and as suicidal tendency had also manifested itself, she had for some time been an inmate of a retreat at York. She returned home some time ago. The deceased lady had sent a servant for the carbolic acid to Mr. Burnell's, chemist and druggist, Glossop Road, Sheffield, and as the girl had fetched some on another occasion for disinfecting purposes, she said nothing about the matter. Mrs. Robinson had secreted the acid in one of the drawers in the bedroom, having first removed the label on the bottle.

John Webb, an upholsterer, 73 years of age, of Macclesfield, had been suffering from rupture for twenty years, and had been an out-patient of the Infirmary. Last week in the night he got up from bed, and drank a quantity of carbolic acid, which had been left on the table in a saucer diluted with water, as a disinfectant. Death resulted. No doubt the poison was taken in error.

Embezzlement by a Chemist's Manager.

At the County of London Sessions, Newington, before Sir Peter Edlin, John Marshall was indicted for embezzlement. The prisoner had been for some months in the service of Mr. Sidney Grover, chemist, of 3 Croxted Road, Dulwich, as manager of a branch establishment of his at 7 Carlton Terrace. Matters having occurred which induced Mr. Grover to doubt the prisoner's honesty, he instructed two or three of his acquaintances to go to the shop and lay out specified sums in buying goods there, and it was alleged that the prisoner had not accounted for some of the sums so received.

In his defence, it was contended that the prosecutor contemplated selling the business, and had offered it to the prisoner; that he refused to spend money on it, and so the stock became too small, and the prisoner had to lay out part of the takings to buy goods to replenish it.

The jury, however, found him guilty, and it was stated that the deficiency amounted to 50*l.* or 60*l.* The prisoner said that Mr. Grover had a spite against him for not buying his worthless business, and had therefore brought a groundless charge against him. He was sentenced to eight months' imprisonment with hard labour.

Dental Advertising.

The Council of the Royal College of Surgeons last week considered a memorial from members of the British Dental Association requesting that the resolution respecting Fellows and members of the College and trading institutions should be made to apply also to licentiates in dental surgery. It was unanimously agreed that the Dental Association be informed that the Council are entirely in accord with these views.

Veterinary Matters.

At the recent meeting of the Council of the Royal College of Veterinary Surgeons it was reported in regard to the Veterinary Pharmacopœia, that the committee had come to the conclusion that the College had no power to invest funds in the mode proposed. At the same meeting Mr. Donald told the Council that two medicines are regularly sold amongst stock-owners which contain poisons. He moved that a representation be made by the College to the Pharmaceutical Society that these preparations are being sold contrary to the

Pharmacy Act. Some doubts were expressed as to the expediency of this step, and there being no seconder the matter fell to the ground.

A Charge of Drunk and Disorderly.

At the Ixworth Petty Sessions last week Henry Thurlow, chemist and druggist, Ixworth, was charged with being drunk and disorderly in High Street, Ixworth, on April 3. Defendant, on the charge being read over to him, stated that Mr. Ashton, who was to defend him, had gone home, owing to a misunderstanding. He therefore asked that the case might be adjourned for a fortnight, which the Bench granted.

The Draper Damages the Chemist's Roof.

At the Torquay County Court on Saturday, Mr. Ness, chemist, Union Street, sued his neighbour, Mr. Durbin, draper, for 6*s.* 6*d.*, alleged damages to the roof of plaintiff's house. Plaintiff stated that he gave the defendant permission to go on his roof to paint his name on the side of his house on condition that he made good any damage. The sum sued for was the cost of repairing the ridge-tiles which defendant had damaged.

The Judge: And has not the defendant made you any offer?

Plaintiff: No, sir.

The Judge gave a verdict for the amount claimed, with costs.

Analysts and County Councils.

The Derbyshire County Council is considering the desirability of terminating their engagement with Messrs. Allen and Hehner as county analysts, and appointing instead a skilled analyst at a salary not exceeding 400*l.* per annum. A committee of the Council recommends that this course should be taken, and that a county laboratory should be established.

The Strike in the Yorkshire Bottle-trade.

Another earnest and determined effort has been made to bring to an end the disastrous strike in the glass-bottle trade of South Yorkshire, but without success. Just now should be one of the busiest periods of the year, and with a view of keeping their trade somewhat together manufacturers have been filling orders with goods obtained from other glass-bottle making centres, especially from St. Helens. Some customers have placed their orders with continental makers, whose representatives have taken advantage of the dispute here and pushed trade most vigorously. A week ago it became known amongst the men that some manufacturers were putting their works in repair and ordering in material, and the hope was entertained that work would soon be resumed. On Monday the employers had a very lengthy conference with representatives of the men at the Bull Inn, Wakefield, but, both sides being equally determined not to yield, the situation remains unchanged. The employers will continue to see the trade leave the district, and the men and their families to suffer the severest privations.

A Small Compounder.

A man, accompanied by a small boy, came before Mr. Lane, Q.C., at the North London Police Court, on Wednesday, and asked for process against a chemist for wages. The boy had first been employed to deliver handbills; then he was taken in to deliver physic, and after that he was taken inside the counter to assist in compounding the medicines.

Mr. Lane: What, that little fellow?

The Applicant: Yes.

Mr. Lane: That requires a certain amount of skill, and takes the matter out of the provisions of the Police Act. You will have to go to the county court.

Manx Chemists Disputing.

At Douglas, on April 12, George Henry Horne applied for an injunction against William Vincent, both plaintiff and defendant being chemists. Mr. Ring, who appeared for Mr. Horne, said that on January 12, 1891, defendant agreed to act as manager and assistant to plaintiff in connection with his business of chemist and druggist, 79 Strand Street, Douglas, at a salary of 30*s.* per week. At the same time defendant agreed in writing that he would not at any future time commence business in the town as a chemist and druggist, and the engagement as assistant and manager was to be terminable by one month's notice on either side, and defendant continued in plaintiff's employ until April 8, 1891, and on March 1, 1893, he opened a chemist's and druggist's business at 34 Strand Street. Petitioner asked that defendant should be restrained from carrying on such business, and for an injunction, pending the hearing of an action for breach of contract.

Mr. Keene, defendant's solicitor, said his client was only in plaintiff's employment for two months, notice being given by Mr. Horne to terminate his agreement. Since then defendant had been employed as an assistant by different chemists in the town, and recently, without thinking about the agreement at all, had started in business for himself. Defendant did not set up a new shop, but purchased an old business. Defendant was under the impression that the agreement was only binding while he was in plaintiff's service. Mr. Keene thought there ought at least to be some evidence as to damage before an injunction was granted, as it was a serious thing to close his client's business.

Eventually the injunction was granted upon an undertaking being given that Mr. Horne would be responsible for damages in the event of his not succeeding.

Subsequently it was agreed that the petition and action should be heard in a fortnight, Mr. Ring consenting to Mr. Vincent keeping his shop open.

The Chemists' and Druggists' Exhibition.

At the meeting of the London County Council on Tuesday, the Theatres Committee reported that they had received a drawing, dated March 17, 1893, from Mr. R. Venner, showing the proposed arrangements for the Chemists' and Druggists' Exhibition to be held from April 22 to 29 at the Royal Agricultural Hall, Islington. They recommended that the drawing, dated March 17, 1893, be approved, provided no gangway is at any part less than 8 feet wide, and that not more than 5,000 persons be permitted in the hall at any one time. This was agreed to.

The Institute of Chemistry.

An extraordinary general meeting of the Institute of Chemistry is to be held at 30 Bloomsbury Square, London, W.C., on Thursday, April 27, at 7.30 P.M., for the following purposes, viz.:—

1. To pass the following resolution:—

> That the Council be empowered to expend a sum not exceeding 1,000*l.* upon the erection of a building to be used as a laboratory, upon the ground at the back of the house at 30 Bloomsbury Square.

2. To consider the subjoined report of the Censors, and pass a resolution, or resolutions, thereon:—

> The Censors recommend that at the next Conference, which should be summoned as an extraordinary general meeting in accordance with By-law 5, the following resolutions shall be submitted:—
>
> I. That the following acts, or any of them, shall be held to be "discreditable to the profession of analytical and consulting chemist," viz.:—
>
> (1) Advertising for practice in newspapers, journals, magazines, or other published papers.
>
> (2) Sending out by post or otherwise letters, circulars, or cards offering professional services.
>
> (3) Undertaking through another person or agency the performance of professional work at fees representing only a small fraction of the usual recognised scale of fees for analytical work.
>
> (4) Supplying to other persons, not being qualified chemists, reports upon samples or processes with the knowledge that these other persons will issue such reports as their own work.
>
> (5) Issuing or allowing to be issued certificates of purity or superiority concerning advertised commodities, such certificates being either not based upon results of an analysis, or containing exaggerated, irrelevant, or merely laudatory expressions, designed to serve the purposes of a trade puff.
>
> (6) The unauthorised use of letters indicating University degrees.
>
> II. That in the opinion of this meeting the Council will be justified in regarding these acts as offences of the kind referred to in the Charter (chap. xvi. 3) as discreditable to the profession of analytical and consulting chemist.

Signed by Prof. William A. Tilden (Chairman), Dr. J. Bell, C.B., Mr. Charles E. Cassal, Dr. E. Frankland, and Prof. T. E. Thorpe.

A Trivial Assault.

On Tuesday, at the Southampton Borough Bench, before Mr. R. Chipperfield and other Magistrates, Walter Johnson, chemist, of 112 Bevois Valley, was summoned for assaulting a young man named Walter Frederick Pluckett on April 13. Mr. Bell, solicitor, appeared for the complainant, and Mr. Dixon for the defendant. The complainant admitted calling Mr. Johnson a liar, and Mr. Dixon, in defence, urged that there was a preconceived intention to annoy Mr. Johnson. It appeared that there was some dispute as to the possession of property, which had formed the subject of litigation in the County Court. Defendant admitted pushing the complainant, but only after being called a liar—with an adjective—more than once. The Magistrates considered the assault a very trivial one, and ordered defendant to pay the costs.

Chlorodyne-poisoning.

Maria Ann Edwards, a cook, lodging at 66 Star Street, Edgware Road, complained at times of pains in the head, and she also suffered from sleeplessness. On Sunday morning last she was discovered in a dying condition in her bed. An empty bottle marked "Chlorodyne" and a glass lay on the table. She was taken to St. Mary's Hospital, where she died the same evening.

Irish News.

Death of Dr. Rawdon Macnamara.

On Wednesday, April 12, at his residence, Stephen's Green North, Dublin, Dr. Rawdon Macnamara. Dr. Macnamara was well known to Irish pharmacists as the editor of "Neligan's Medicines" (now out of print) and as lecturer on materia medica at the Royal College of Surgeons, Dublin. He was an original member of the Council of the Pharmaceutical Society of Ireland. He was looked upon as an expert in cases of poisoning, and was produced as a medical witness for the defence in the famous Maybrick case.

Pharmaceutical Society of Ireland.—April Examinations.

Pharmaceutical Assistants' Examination.—Mr. J. Long passed.

Registered-druggist Examination at Dublin:—Messrs. G. L. Beggs and R. E. White passed. Two candidates were rejected.

Personal.

Mr. Samuel P. Boyd, managing partner in the firm of Boileau & Boyd, wholesale druggists, Dublin, has been elected as a delegate to attend the Albert Hall demonstration against the Home Rule Bill.

Drug-contracts.

Messrs. Leslie & Co., Dublin, have been appointed contractors for the supply of drugs, &c., to the South Dublin Union.

Overdose of Prussic Acid.

An inquest has been held at Belfast touching the death of Mr. James J. Goskar, pharmaceutical chemist, of Carlisle Circus. The deceased gentleman was found dead in a room above his shop on Wednesday last week, and a small bottle containing a liquid smelling strongly of prussic acid was found on a chest close at hand. Dr. J. C. Smith made a *post-mortem* examination, and found seven or eight ounces of a dark-brown liquid in the stomach, smelling strongly of prussic acid. Deceased had died from the effects of the poison. He also found the deceased had suffered from fatty degeneration of the heart. Dr. Whitla said he had been medical adviser to Mr. Goskar for some years. He suffered from diseased heart and liver. The heart disease caused indescribable agony at times, and was frequently associated with severe mental depression. The drug named might have been taken by deceased for nausea. He was inclined to think Mr. Goskar had taken some prussic acid diluted with water. The Coroner remarked that Mr. Goskar was one of the finest men he had ever known. A verdict in accordance with Dr. Whitla's evidence was returned.

The Quarterly Druggist Examination

was held in Queen's College, on Tuesday, by Professor Whitla, M.D. There were eleven candidates. The following were the written questions:—

(1.) Give a list of poisons in Schedule A, Part I., and also Schedule B of Poisons Act.

(2.) Write out a table of weights and measures of B.P.

(3.) How many teaspoonfuls are there in $1\frac{3}{4}$ pint?

(4.) How many grains are there in 1 lb. $7\frac{1}{2}$ oz. avoid.?

They were then put through a severe and practical verbal examination on their knowledge of the various drugs and chemicals they are likely to meet with in business. The answering, on the whole, was very good. The Pharmaceutical Society were represented by two of their members—Mr. Lyon, Royal Avenue, and Mr. Gibson, King Street.

Scotch News.

Druggists Refuse Chlorodyne.

In the Edinburgh City Police Court, on April 14, Mary Ann Sullivan, or Lee, was convicted on evidence of having, on April 12, threatened to commit suicide by poisoning herself. It seemed that she went into the druggist's shop, 207 Canongate, and asked for 3*d.* worth of chlorodyne, as she wished to put an end to her existence. Being refused, she then asked for 3*d.* worth of laudanum, which was also refused her. She then went to the druggist's shop, 46 Canongate, and asked for 3*d.* worth of chlorodyne, but the shopman there also refused to serve her, and she was arrested. Bailie Macpherson sent her to a "home," and continued the case for a month to see if she remained there.

Shop-breaking.

George Cleghorn, carrying on business as a tailor in Dunbar, pleaded guilty, at Haddington Sheriff Court on Monday, to a charge of having broken into the shop of Mr. W. P. Wilson, chemist, Dunbar, and stolen upwards of 10*l.* It was urged, on behalf of the accused, that the theft had been committed while he was under the influence of drink. The Sheriff sentenced him to three months' imprisonment.

Cheap Dispensing in Aberdeen.

Some two months ago the Town Council of Aberdeen agreed to provide their employés with medical attendance. They divided their employés into three sections, and appointed a medical officer for each at the rate of 2*s.* 6*d.* per head per annum. Finding they could not stop short here, they asked a few chemists for estimates for the medicine to be ordered by the medical officers. The Finance Committee accepted the offer of Mr. Andrew Craig, jun., chemist, Gallowgate, to supply medicine as prescribed at a cost of 6*d.* for every prescription dispensed. At a subsequent meeting of the Council, Dr. Beveridge drew attention to this contract, and urged Treasurer Bisset to take back the matter for reconsideration. It was manifestly impossible that the contract could be carried out in a proper way at a charge of 6*d.* a head. (Hear, hear.) Suppose the drugs were to be of the highest quality—and he did not assume that they would be anything else—it was clear that the men would complain that they were not getting the proper thing. Treasurer Bisset said he could not comply with the appeal, because it had been stipulated that the medicines must be such as are prescribed by the medical officer. He granted that it was a ridiculously small sum, but a respectable, responsible individual had come forward and undertaken to supply the drugs at that rate, and they could not refuse the offer. Of course they should insist on the drugs being of the proper quality. The offer had been accepted.

Bailie Mearns said there was this other matter—How could this man pay the standard rate of wages at 6*d.* a head?

Mr. Johnston said there were about 600 employés, and there was not a respectable druggist in Aberdeen who would

supply the drugs at less than 1*s*.—in fact, 9*d*. and 10*d*. was the charge made for the poor-houses.

The Lord Provost said that suppose the man tried it he would not lose a great deal, because there were others not much above the sum mentioned.

Business Change.

Mr. D. Levack is removing his business from George Street, Aberdeen, to a new shop in Mile End, Aberdeen. He has been appointed postmaster for the Argyle Place branch post-office.

French Pharmaceutical News.

(From our Paris Correspondent.)

The Paris Municipal Elections were held on Sunday last, and, in looking over the list of candidates, it is curious to notice that, out of nearly a thousand aspirants for office, there is not the name of a single pharmacist. From this it can only be conjectured that they, as a body, find sufficient occupation in attending to their own affairs. Almost every other trade and profession has its representatives, and there is quite a sprinkling of doctors.

De Candolle, the famous botanist, who died a few weeks ago at an advanced age, was born at Paris in 1806, and for many years was Director of the Botanic Garden at Geneva, to which post he was appointed on the death of his distinguished father, Augustin Pyramus de Candolle. Professor Alphonse de Candolle was a lecturer in the Academy at Geneva, and was a member of various learned societies in Europe, including the Royal Society of London.

Syphilis from Nursing.—A wet-nurse in Paris, who had received an infant to nurse from the "Assistance Publique," or office for the relief of the poor, contracted syphilis from the child, and sued the managers of the "Assistance Publique" for damages. It was proved that the woman had been examined and found in good health before receiving the child, also that shortly after taking the nursling she developed symptoms of syphilis upon the breast, and that her husband and children were quite free from the disease. She obtained a verdict for 7,000f. damages.

The Photography of Colours.—At the Academy of Sciences on Monday last M. Lippmann presented nine colour-photographs obtained by M. M. Lumière, of Lyons, through his process. The objects reproduced were chromos, such as are used for decorating biscuit-boxes, &c. This is considered to be a progress of some importance, as it shows that a number of colours may be reproduced, even when of the most delicate tints. M. Lippmann has been able to reduce the time of exposure from several minutes to a few seconds; he is also experimenting with electric light of great intensity. These photographs of colours will be exhibited at the Chicago Exhibition.

The French Resin and Turpentine Industry.—In 1892 the production of resin and turpentine in France showed an increase of 15 or 20 per cent. over the yield of 1891, thanks especially to the favourable weather. By reason of this augmented production of resin, prices of turpentine fell considerably, and a fair export trade took place. For resin the demand was good and prices were satisfactory for producers. The use of this article is extending, and many new industries are now employing it, both in France itself, and also in neighbouring countries. It is estimated that in 1892 6,000 tons of turpentine and 30,000 tons of resin were exported, and that 12,000 tons of turpentine and 50,000 tons of resin were consumed in France.

Glycerine as an Aliment.—Last February the Paris Prefect of Police consulted the Council of Hygiene with a view of learning if it is feasible to allow preparations containing from 20 per cent. to 40 per cent. of glycerine to be sold. M. Riche was delegated to study the subject, and he has just issued an interesting report of his researches. After reviewing the results of experiments of authorities such as MM. Dujardin-Beaumetz, Catillon, &c., M. Riche comes to the conclusion that it is impossible to say what effect would be produced on a man taking a preparation containing glycerine, even in small doses, continuously. He forms the decided opinion that such things ought not to be introduced for human consumption. He considers that ordinary commercial glycerine is dangerous, and can only be rendered pure by lengthy and expensive processes. M. Riche's report has been adopted by the Council of Hygiene.

Epidemics are Prevalent in Paris just now. For several weeks past most people have been able to claim an attack of influenza in a more or less severe form, while during the past eight days there has been great difficulty in empanneling juries, owing to the numerous absentees who excused themselves by providing doctors' certificates. The death-rate has also considerably increased. Typhus fever has had a number of victims in a suburb of Paris, and is also very prevalent at Lille and Amiens. In addition, the cry of cholera has already been raised again, but fortunately without apparent reason. Of course such scares have always a favourable tendency as regards pharmacy, and consequently business is a little more brisk than usual at this time of the year. The ultimate effect, however, will probably be to keep visitors away again, which means a serious loss to all classes of shopkeepers in the West-end of Paris.

The Treatment of Morphinomaniacs.—At the last meeting of the *Société de Thérapeutique*, M. Pateni read a paper on this subject. He considers the confinement of morphinomaniacs a necessity. They cannot overcome the fatal passion until the temptation is taken away. They can only be considered as cured when the suppression of morphia has been going on for some time, and not merely when they are satisfied with a few centigrammes instead of 1 or 2 grammes. According to certain authors, morphia is transformed in the stomach to oxydimorphia, which is very poisonous, and morphia is said to be the antidote; from this it is deduced that the suppression must be gradual. This theory is by no means proved; but in any case it should never be mentioned to a patient, or it will be found to develop the mania in an alarming way. The only practical cure is complete deprivation and confinement. M. Duchêne is of opinion that, as in many other cases, morphinomaniacs do not always seek to cure themselves. They may consent to confinement in a moment of lucidity, but directly the deprivation becomes too trying they at once seek their liberty.

Foreign Pepsins.—The recent articles published by M. Portes, Chief Pharmacist at the Saint Louis Hospital and last year's President of the Paris Society of Pharmacy, contained comparisons decidedly unfavourable to foreign preparations. This has brought a retort from Dr. F. C. Witte, of Rostock, who claims to be one of the oldest manufacturers of the product. He acknowledges that the French Pharmacopœia's pepsin is of good quality, and better than some; but, on the other hand, he contends there are others which are superior to it. Continuing, Dr. Witte says: "If he is unprejudiced, M. Portes will agree that I have good reason for speaking thus. The processes of making pepsin are certainly very varied, every manufacturer using his own special methods. The systems indicated in books may be used for making laboratory experiments, but they never serve practically. At present M. Portes is correct in saying that pepsin cannot be characterised chemically, but the qualities of a good preparation may be easily defined." He goes on to mention that, according to the formulæ of the Pharmacopœias of each country, a good pepsin must retain its digesting power unimpaired during several years. Dr. Witte especially defends the German article.

Foreign and Colonial News.

Professions in Bombay.—The recent census of Bombay shows that there are in the Presidency 3,123 medical practitioners with diploma, and 11,704 without: dentists numbered 118; oculists, 59; vaccinators, 1,420; and botanists. 12.

Columbian Exposition.—The reports regarding the World's Fair show that the expenditure up to March 1 was $15,584,310.16, and all except $2,000,000 of this amount is for construction. The place is open to visitors, and the gate receipts so far have been $205,310.75, showing that 821,243

people having visited the grounds since the admission fee has been charged.

Expensive Registration.—It seems to take occasionally some money and trouble to be registered as a chemist in Quebec. At the last meeting of the Pharmaceutical Association of the province, the Registrar reported that the Bill introduced in the Quebec Legislature on behalf of Madame Dion, of Levis, to authorise the Association to register her as a licentiate of pharmacy had become law.

Pharmacy in California.—A Bill has just been passed in the California Legislature which provides for an annual registration of all pharmacists and assistant pharmacists in the State on the payment for re-registration of a sum not exceeding $2 each for pharmacists, and $1 for assistant pharmacists. This is an amendment upon the existing law, and the intention is to provide the Board of Pharmacy with funds, of which it has had too little hitherto.

Caught Smuggling.—A Buffalo druggist has been caught by the United States Customs officers in the act of smuggling a large quantity of phenacetin and antipyrin into Buffalo from Toronto. Mr. E. A. Kingston is his name. One of the officers heard that Mr. Kingston and his brother were in Toronto making the purchase. They were watched, and it was found that they went to Fort Erie, on the Grand Trunk Railway, left the train there, and hiring a boat were rowed across the river at night. An officer was watching at the foot of Ferry Street when the smugglers landed. They passed the Custom House, and were then placed under arrest. At their trial E. A. Kingston was fined $350, and his brother $100.

Servian Pharmacists and their Assistants.—The daily papers of Budapest have just published a communication from the Hungarian Minister for Home Affairs, warning chemists' assistants against accepting situations in Servia without having previously satisfied themselves, by inquiry at the office of the Austrian Consul-General in Belgrade, of the *bonâ-fides* of the person offering them employment. This warning has been provoked by the discovery of a regular system of enticing Hungarian chemists' assistants to Servia, and swindling them out of all their belongings. One "pharmacist" in Belgrade is said to have victimised fifty Hungarian assistants in this manner within the last 2½ years.

A Chemical-factory in the Transvaal. — The Johannesburg *Star* gives particulars of a new factory for sulphuric-acid manufacture, known as the "Transvaal Chemical-works," which has just been erected at Knight's Dam, in the Transvaal Republic, close to the Hungarian Ore-reduction Company's factory. The factory is under the management of a Mr. Bagshawe, who has had experience of similar work in Scotland and elsewhere. The works will be of great advantage, it is thought, to the gold-fields; they will use the pyrites obtained in treating the ore, and supply the gold companies with the sulphuric acid, of which they require large quantities. There are four lead-chambers, measuring 130 by 90 feet, and from 12 to 14 feet high, erected by English workmen.

The British Guiana Government Laboratory.—The Government analytical chemist of British Guiana has hitherto been allowed to carry on a private analytical practice in addition to his official work, but at the last meeting of the "Court of Policy" of the colony a motion was brought forward suggesting that the fees received by the analyst in his private practice (which were stated to amount to $1,320 a year) should go into the Treasury. Ultimately it was agreed to allow the analyst $1,200 a year in lieu of his private fees—the latter to go into the Treasury—to raise his salary from $3,000 to $3,600, with quarters, and to allow him two assistants (one at $960 and one at $480), instead of one as heretofore. The analyst clearly appears to have had the best of the bargain.

Doctor-Druggists.—There is some trouble in Philadelphia regarding the registration of a doctor there as a druggist. The applicant is a medical man who holds a diploma, and he maintains that the pharmacy law of the State entitles him to be registered as a druggist, by proving to the State Pharmaceutical Examining Board that he has been in practice for three years. He applied to the Board, and, they refusing to register him, he has applied to the Common Pleas Court to compel the Board to register him. The case is down for hearing at our last advices, and is creating considerable interest in Pennsylvania. Apparently in consequence of this action, the pharmaceutical authorities have with commendable vigour prepared and have succeeded in passing a Bill amending the 1887 Act, to the extent that the clause under which medical practitioners could be registered under the Act has been repealed.

Philadelphia College of Pharmacy.—At the annual meeting of this College, held in Philadelphia last month, the following amongst others were elected honorary members of the College:—Alfred H. Allen, F.I.C., F.C.S., Sheffield, England; Thomas B. Groves, F.C.S., Weymouth, England; David Hooper, quinologist, Ootacamund, India; Dr. Ferdinand von Mueller, Melbourne, Australia; and Charles Umney, F.I.C., F.C.S., London, England. Emil Fischer, Liebreich, Victor Meyer, and Mendeleef were amongst those similarly distinguished. The following were elected corresponding members of the College:—F. Baden Benger, F.I.C., F.C.S., Manchester, England; William Martindale, F.C.S., London, England; Helen Abbott Michael, Torwood, Isle of Wight; Professor Henry A. Tilden, Birmingham, England; and Dr. C. R. Alder Wright, F.R.S., London, England. Bocquillon-Limousin, Kobert, Schmiedeberg, Wallach, and others were ranked with these.

The Supply of Petroleum.—Statistics establishing the yield of petroleum during the last months of 1892 seem to indicate a gradual exhaustion of the sources, as the average monthly supply in 1892 was only 87,711 gallons, compared with 94,980 gallons in 1891. On the other hand, the production of raw petroleum in 1891 and 1890 was respectively 34,000,000 and 45,000,000 barrels, or a falling-off of 11,000,000 barrels in 1891. In spite of the diminished production the prices, instead of rising, have experienced a fall, owing to the keen competition of Russian with American petroleum; hence the abandonment of certain springs in the United States. At Baku, in Russia, the production exceeds the demand. An oil-well has recently commenced to flow there which, at its present rate of production, is delivering 17,742 tons of crude oil a day; but, owing to the almost insurmountable difficulties experienced in getting a flow of this magnitude under control, most of the oil is running to waste into an adjoining lake known by the name of Romani.

"First Aid" in New York.—"For God's sake give me something—I'm poisoned!" cried a man with a horror-stricken countenance, as he ran into Hudnut's drug-store, New York, the other day. "I've taken an overdose of cocaine!" cried the man again, dropping a valise that burst open upon the floor. The clerks jumped towards the man and a moment later were pouring hot mustard-water and emetics down his throat. They had their effect and then he gasped, "I didn't swallow the stuff. I injected it into my arm." The clerks nearly fainted with disgust. But they changed their tactics, and gave the weakened man steaming bowls of beef-tea, which were being disposed of when an ambulance of the Chambers Street Hospital arrived. The surgeon insisted upon taking the man to the hospital. He consented to go, but first wrote on the back of a card:—"Dearest, don't be anxious if I'm not home to-night." He acknowledged having taken 2 grains of the drug and carried with him a full outfit for hypodermic injection. A pretty punishment he has had for his indulgence. Doubtless he recovered (our report sayeth not); he deserved to after such an experience as he had in the drug-store.

United States Trade-marks.—The following marks were registered at Washington on March 21:—"Macura," for a remedy, Macura Drug Company, Binghamton, N.Y.; "Ozone Specific," on a device, for antiseptic compound for the blood, C. E. Eman and J. S. Powley, Toronto, Canada; "Dr. F. Norman's Healing Oil," for liniments, Hofbauer Bros., Hannibal, Mo.; "Cyona," for liquid external medicine, Cyona Company (Limited), London, England; "Lanola Skin Food," for dermal toilet-preparation, Jennie Maxim, Pittsfield, Mass.—Registered March 28:—"Bromophine," for medicinal tablets, Mellier Drug Company, St. Louis, Mo.; "Royal Camphorline," for skin-disease ointment, Raysor & Smith, Ashcville, N.C.—Registered March 14:—"Dermis," for complexion-powder, Tetlow Manufacturing Company (Limited),

Philadelphia, Pa.; "Bang-Frizetta," on a device, for hair-dressing, Martha F. Hickey, Troy, N.Y.; "Susphate," hog-cholera remedy, E. C. Rosenzi, Philadelphia, Pa.; "Purgans," for cathartic, Eli Lilly & Co., Indianapolis, Ind.; "Animine," for salves and liniments for animals, the Reliance Manufacturing Company, New York, N.Y.; "Atropium," for medicinal plasters, G. M. Dorrance, Philadelphia, Pa.—Registered at Washington, April 4:—"Floridena," for liquid perfume, Tetlow Manufacturing Co.; "Althea," under a woman's portrait, for toilet soap and preparations, Conrad Miller, Detroit, Mich.; "Sapozin," for medicinal and toilet powders, McKesson & Robbins, New York City; "Koko Mint" and "Octagon," for flavoured tablets, Hance Bros. & White, Philadelphia; "Doctor J. L. Spark's White Cream," for vermifuge, Wood Drug Co., Bristol, Va.; "Isol Balm," for remedy for mucous and cutaneous diseases, T. W. Graydon, Cincinnati, Ohio: "Dr. F. Norman's Herb Syrup," for herb syrups, Hofbauer Bros., Hannibal, Mo.

AUSTRALASIAN NEWS.

The following notes on Australasian pharmaceutical matters are based upon information contained in the March issue of *The Chemist and Druggist of Australasia*:—

Eucalyptus Oil and the Pharmacy Act.—The Tasmanian Pharmaceutical Society, acting upon the advice of their solicitor, have called upon a local firm of eucalyptus-oil distillers to cease offering for sale eucalyptus oil in packages which do not bear the name of a registered pharmacist. The solicitor's opinion is that, eucalyptus oil being a medicine or drug, it cannot legally be sold except in bottles or packages bearing the name of a registered person.

Sharland & Co.'s Dividend.—The third annual meeting of the shareholders in the firm of Sharland & Co. (Limited) was held in Auckland, N.Z., on February 5, Mr. F. C. Sharland occupying the chair. In the report submitted the directors said the year's business had been very satisfactory, and that there was every indication of a general improvement all over the colony. The greatest expansion of business had been in the Wellington district, and in order to meet the requirements there larger premises would be erected. The profits for the year had been 3,536*l.* 7*s.* 7*d.*, and last year's anticipation of a 10-per-cent. dividend on increased capital had thus been more than realised; but, in view of the proposed outlay for a new building, a dividend of 8 per cent. only was recommended for the year. The report and balance-sheet were adopted.

Impending Council Election in Victoria.—Like their British brethren, the Victorian members of the Pharmaceutical Society are afforded an opportunity this year of taking part in a contested Council election, the first for three years. The four members of Council who retire this time are Messrs. T. M. Blackett, Joseph George, T. C. O'Kearney, and D. A. Simpson. Messrs. George and Blackett offer themselves for re-election, Mr. Owen and Mr. S. S. Strutt, new candidates, issue an address to the members of the Society conjointly, and Messrs. O'Kearney and Simpson, retiring members, run jointly with a third new candidate, Mr. Albert E. Hughes. Mr. George has been President for several years, Mr. Simpson has been in office for a complete term of three years, but Mr. Blackett and Mr. O'Kearney were nominated by the Council to fill vacancies; Mr. Strutt has been a member of the Pharmacy Board for many years; Mr. Owen is of the firm of Poulton & Owen, homœopathic chemists, Collins Street. None of the addresses discuss any matter of principle, and the election will be decided simply by the personal popularity of the candidates.

Registration of Firms in Victoria.—A Registration of Firms Act has just come in operation in Victoria. It requires all firms carrying on business in the colony under a style that gives more or less than the name or names of the proprietorship to register the names and addresses of partners, with the nature of the business and place where carried on. Thus, if John Smith and Tom Jones are trading as "John Smith & Co.," or if John Smith *himself* is trading under that style, the firm must be registered; and so also if John Smith and Tom Jones are trading as "John Smith." Our Australasian journal gives particulars of a large number of pharmaceutical firms that have just been registered under this Act. The list includes the following wholesale houses:—Felton, Grimwade & Co., wholesale druggists and manufacturing chemists, Flinders Street, Melbourne; partners, Alfred Felton (eucalyptus-oil distiller and glass-bottle maker), F. S. Grimwade (eucalyptus-oil distiller and glass-bottle maker), and E. N. Grimwade (no other occupation). J. Bosisto & Co., eucalyptus-oil distillers, Richmond, and Antwerp, near Dimboola; partners, Joseph Bosisto, Alfred Felton (wholesale and manufacturing druggist and glass-bottle maker), F. S. Grimwade (merchant, and glass-bottle maker and wholesale druggist), and Mary Charlotte Bage, of Oxford, England. Rocke, Tompsitt & Co., wholesale druggists and manufacturers of pharmaceutical preparations, Flinders Street, Melbourne, and London Wall, London; proprietor, H. T. Tompsitt (registered pharmaceutical chemist).

The Adelaide Hospital's Ether-supplies.—On February 17, Dr. Giles, a member of the Adelaide Hospital Board, complained, at the meeting of that body, of the quality of the ether supplied by Messrs. Faulding & Co., and as a result of his statements a motion was carried to have the ether tested by the Medical Committee of the Board. When Messrs. Faulding & Co. heard of the charge brought against them they wrote to the hospital requesting that all the ether they had be sealed and forwarded to Professor Rennie for examination, and gave the names of a number of medical men who certified that they were satisfied with the ether supplied them by the house. A few days afterwards a test experiment took place by an independent analyst in the presence of a number of medical men and journalists, with the result that a Winchester labelled 720 (at 60°) gave 719, a thermometer within the scales-case showing a temperature of 74°. A drum was then opened, and at the same temperature gave 717·5. The starch and iodide, and the copaiba tests were also applied, and indicated purity. The charge, therefore, fell to the ground. Dr. Giles's special objection to Messrs. Faulding's ether was that it took too long a time to act and that before patients could be properly anæsthetised they were generally half-choked. In former years the Hospital Board bought their supplies direct from the Apothecaries' Hall in London, but when the protective era set in in South Australia the Government ordered the Board to obtain their supplies by tender from a local firm. Messrs. Faulding state that up to three years ago they imported three qualities of ether—735, 720, and 715—but from that time, as the contract-sheet specified 720, only 720 ether has been imported. The usual packages were 38-lb. drums and 4-lb. bottles, but at the request of one of the hospital doctors some time ago ether has invariably been supplied to the institution in original glass packages.

The Queensland Floods.—A flooded Brisbane correspondent writes to our Melbourne office, under date of February 18, as follows:—"Maryborough, Ipswich, Gympie, Bundaberg, and several other important towns suffered from the floods alike with the metropolis. As may be imagined—when it is borne in mind that telegraphic, railway, and shipping communication has been stopped—it is a most difficult matter to obtain authentic information respecting the loss to those chemists who had the misfortune to be below flood-level. Mr. G. T. Hudson, Ipswich, had his splendidly equipped pharmacy deluged, and as these premises are situated on a good elevated site in Brisbane Street, it may be readily imagined what a depth of water lay at the foot of that street—at least 40 feet. Mr. C. H. Hughes, of Maryborough, had the water in the shop to the counter-ledge. Mr. David Clarke's pharmacy has been wrecked, the water reaching the ceiling. In Gympie, which was almost submerged, Messrs. Wilcox and Sapsford are heavy losers, both pharmacies being almost ruined. In South Brisbane the flood waters affected three pharmacies belonging to Thomason Bros. & Co. All these premises were well stocked and were good buildings. The stock and fittings were ruined. At their 'Bridge' shop the water burst in the back door and carried out the window, taking the goods with it. Mr. A. S. Denham, Stanley Street, South Brisbane, had his stock totally ruined. He carried his goods up to the second storey; but this was not high enough, and was almost swept clean. Mr. Denham has since purchased an entirely new stock and moved to a more elevated position. He will save more than

he thought at first sight. Mr. M. H. Cormack, who had just taken over Mr. Player's old business, near Victoria Bridge, Stanley Street, and had it thoroughly well stocked and equipped, had not been there a fortnight when the site became almost useless (the bridge having been destroyed) and the stock was ruined. Mr. Martin's beautiful pharmacy, noted for its fine woodwork, suffered greatly, there being about 8 feet of water in the shop. Mr. Clarke had about 2½ feet of water in his front shop, the cellars, of course, being full. Mr. Clarke fared well, considering how his *confrères* have suffered. Mr. G. Watkins's pharmacy suffered severely, it being situated in the 'dip' opposite the Opera House. An idea of the state of Edward Street is given by the fact that a steam-launch passed Mr. Rutter's pharmacy in deep water. The aggregate damage to the Brisbane retail pharmacies cannot be less than 6,000*l*. Elliott Bros. (Limited) have fared much worse than anybody. The mighty torrents wrought havoc with their Redbank Chemical-works, near Ipswich, and washed the place away—a loss of 12,000*l*. Their fine business-house in Eagle Street, which of late has had one or two narrow escapes from fire, now had a 'water-street' frontage of at least 20 feet depth. The amount of damage must be enormous. Prosser, Taylor & Co., of Charlotte Street, a much higher level than Eagle Street, evidently anticipated and provided for a serious flood, and a few hundreds will cover their loss. The Secretary of the Pharmaceutical Society (Mr. W. Ryott-Maughan), who resides at Milton, has been cut off from all communication with the city for several days this month, there being 40 feet of water on the main road leading to town. Mr. Maughan's residence being situated on a very elevated site, he has been happily enabled to offer a haven of refuge to many who were homeless." On February 19, the day following that upon which the correspondent's letter was written, another great flood, rising to within a few inches of the first deluge, took place, and every part of the city which was previously submerged received a repetition of the devastation. The river—a boiling rush of water became impassable, save only by the torpedo picket-boat *Midge*, which was the only means of communication with the outer world until the final subsidence of the waters. The total rainfall during the period from February 1 to 20 was:—At Brisbane 43·33 inches; at Crohamhurst (Brisbane watershed), 118·96 inches; and at the Observatory, Brisbane, 39·04 inches.

The Winter Session.

CHEMISTS' ASSISTANTS' ASSOCIATION.

On Thursday, April 13, a paper was read on "The Study of Chemistry as a Training for the Mind," by Mr. W. Chattaway, F.I.C. The author pointed out that a considerable portion of a lad's school-time was spent in such studies as Euclid, which was intended chiefly as a means of training the mind. In his opinion a good portion of this period might be spent to advantage in the study of chemistry and chemical physics. The ordinary methods of teaching practical chemistry, by which a student starts with the analysis of simple salts, are not the best. It would be better to commence the study by a synthetic method. The boy should be made to prepare most of the common insoluble salts, using weighed quantities of material, and should then repeat this with solutions prepared by himself, which all bore a constant relation to the combining weights. This would fit him to commence the simpler quantitative experiments. If young students and pharmacists would take up the study of chemistry more as a hobby, and not as a duty, somewhat in the way that they study photography or field botany, a great advance would be made.

In the discussion which followed, Mr. Lloyd Williams stated that Mr. Castell Evans, of Finsbury Technical College, was following the synthetic method of teaching with great success.

LIVERPOOL PHARMACEUTICAL STUDENTS' SOCIETY.

This Society brought a successful session to a close on Thursday, April 13, by a very enjoyable smoking-concert The meeting was held at the Falcon Restaurant, Liverpool, where there was an excellent attendance of members and friends. The programme was somewhat impromptu in character, but, notwithstanding this, the talent shown was much above the average. Mr. J. R. Johnson recited two Kipling sketches; the Rouse brothers manipulated the fairy bells, English concertina, single-stringed violin, and other instruments, in a clever manner; and Messrs. J. Birchall, J. Jones, A. R. Field, S. Arthur, R. H. Mitchell, and S. L. Beckett contributed the vocal element.

MIDLAND COUNTIES CHEMISTS' ASSOCIATION.

A meeting of this Association was held at Mason College on April 13, when a paper was read entitled "Recent Developments in Electro-Chemistry," by Mr. A. E. Robinson, F.C.S. The attendance was very small.

CAMBRIDGE PHARMACEUTICAL ASSOCIATION.

On April 13, Mr. W. G. P. Ellis, M.A., St. Catherine's College, concluded his lecture upon "Flowers and their Relation to Insects"; and on Thursday, April 20, Mr. H. D. Fuge, of Trinity College, read a paper on "Ferns and Mosses."

Pharmaceutical Society of Great Britain.

BOARD OF EXAMINERS FOR SCOTLAND.

At the meeting of the Board this month the following three candidates were examined, and were declared qualified to be registered as

Pharmaceutical Chemists.

German, Charles Mackenzie, Kendal | Hume, John Gordon, Gatehouse
Stephen, Charles, Arbroath

The following were also examined and registered as

Chemists and Druggists.

Bean, Percy, Blackburn
Bennett, Sidney Bailey, Widnes
Birkett, Charles William, Edinburgh
Blackwood, William Smellie Spence, Edinburgh
Blair, Dugald, Greenock
Boyd, William George, Edinburgh
Brookes, John Humphrey, Manchester
Brown, George William, Hanley
Brown, John, Edinburgh
Cameron, John Mackintosh, Edinburgh
Daniel, William James, Middlesborough
Duncan, Charles Tocher, Dundee
Edwards, Robert Griffith, Manchester
Fairhurst, William Pennington, Southport
Fergusson, Henry, Edinburgh
Forrester, Joseph, Manchester
Gordon, Robert, Edinburgh
Groth, Marthien Gustave Bernhard, Edinburgh
Hislop, Isaac, Glasgow
Hunter, Oliver, Wigan
Innes, John, Leith
Jackson, Joseph Gilbert, Liverpool
Johnson, Alfred, Liverpool
Johnson, William, Manchester
Johnstone, Donald Forbes, Edinburgh
Joy, Thomas George, Manchester
Keller, Frederick, Glasgow
Lewis, Thomas Mathias, Liverpool
Lloyd, Richard Eward, Garston
Lovatt, Harry Percy, Todmorden
McGlashan, Peter, Alyth
McKilligin, Hay Grant, Edinburgh
McLaren, Robert, Edinburgh
McNab, Walter Girdwood, Leith
McVitae, John Brough, Glasgow
Mavor, James, Edinburgh
Millar, John, Port Glasgow
Nesbit, James, Portobello
Pennington, John, Wigan
Rhodes, Albert Arthur, Edinburgh
Robinson, Charles Montague, Manchester
Russell, Campbell Inness, Edinburgh
Scott, George L., Edinburgh
Shaw, John, Edinburgh
Short, John, Leith
Smith, David, Edinburgh
Smith, Henry Ewing, Edinburgh
Steer, James Herbert, Manchester
Stonier, Thomas Stuart, North Shields
Thomson, Charles, Edinburgh
Tomlinson, Nehemiah, Burnley
Taylor, Abraham, jun., Eccleshill
Wain, William Spensley, Manchester
Whitaker, Thomas Goodwin, Salford

The Fellowship of the Royal College of Surgeons (London) was founded fifty years ago, and it is proposed to celebrate the jubilee of the event on July 5, and to commemorate at the same time the centenary of the death of John Hunter, by holding an exhibition of the books, pictures, instruments, &c., with which his name is associated.

DRUGGISTS' CONFERENCE IN GLASGOW.

On Thursday, April 13, a conference of Glasgow and West of Scotland chemists and druggists was held in the Scottish Band of Hope Rooms, Glasgow, for the purpose of inaugurating a forward movement on the part of the Glasgow Pharmaceutical Association by extending the area of its operations to the whole of the West of Scotland, and for the discussion of certain proposals for pharmaceutical reform and several matters affecting trade interests. There was an attendance of between thirty and forty, including about a dozen country chemists. Amongst the gentlemen present were Mr. Rutherford Hill (Edinburgh), Mr. John McMillan and Mr. Foster (Glasgow). Mr. W. L. Currie (Dowanhill), President of the Glasgow Association, occupied the chair, and intimated apologies for absence from Mr. Laidlaw Ewing (Edinburgh). and Mr. Sutherland (Dumfries).

The Chairman, in an opening address, referred to the meetings held during the past winter by the Glasgow Association, and said that from a business point of view such meetings were simply invaluable. Matters affecting trade interests could be much better discussed collectively than by individuals, while any subject requiring trade support was more effectively dealt with by a united body than by individuals. It was felt, however, that their position would be considerably strengthened if the sphere of their membership was enlarged. Alterations were required in the existing laws. He referred particularly to the loophole whereby limited companies were enabled to style themselves "chemists and druggists." He moved that the name of the Glasgow Association be altered to "The Glasgow and West of Scotland Pharmaceutical Association." (Cheers.)

Mr. McCowan (Paisley) seconded the resolution, which was unanimously carried, and the following officers of the new Association appointed:—

President, Mr. W. L. Currie (Glasgow); honorary president, Mr. Daniel Frazer; honorary vice-presidents, Mr. John McMillan and Mr. Alexander Kinninmont (all of Glasgow). Vice-presidents: Mr. Thomas Robinson and Mr. John Foster (Glasgow), and Mr. Sutherland (Dumfries). Secretary: Mr. Alexander Laing (Glasgow). District secretaries: Mr. James Bruce (southern district of Glasgow); Mr. Matthew Carmichael (north-eastern); Mr. George Robertson (Partick), and Mr. J. A. Russell (north-western). Treasurer: Mr. James Findlay (Glasgow). Librarian: Mr. Robert J. Shennan (Glasgow). Auditors: Mr. Thomas Dunlop (Pollokshields), Mr. Thomas Adam (Glasgow), and Mr. Martin (Motherwell). Council: Messrs. Hugh Lambie, James Moir. James Robb, J. W. Miller, J. M. Halley, Walter Paris, Alfred Livesey, Alex. Boyd, and A. McKellar (all of Glasgow), and Messrs. Robertson (Rutherglen), McNiven (Grahamston), Stewart (Hamilton), Tocher (Maybole), McMurray (Helensburgh), and Martin (Motherwell).

The meeting next took up the consideration of certain resolutions. The first subject discussed was the proposal that

Associates in Business

should be granted the privileges of membership in the Pharmaceutical Society.

Mr. Thomas Dunlop (Pollokshields) moved:—"That in the interests of pharmacy, and with the object of strengthening the Pharmaceutical Society, the Council be memorialised to extend to associates in business the title of 'member,' with the privileges of membership in Council." This was seconded by Mr. Robinson (Glasgow), and, after some speeches in support of the view, was carried unanimously.

A New Pharmacy Bill—A Suggestion.

Mr. Moir next submitted the following resolution:—"That we, the Glasgow and West of Scotland Pharmaceutical Association, would respectfully urge upon the Council of the Pharmaceutical Society that, when drafting a new Bill for Parliament, they invite representatives from all the Associations throughout the country to confer with them, so that, with their voice and assistance, a Bill might be prepared which would have the entire sympathy and support of the trade." It was time, Mr. Moir said, that they were looking to their interests as chemists and druggists. From the experience Mr. Carteighe had gained of his last Bill he thought he had now gathered sense to know that he should get the voice of the general body of chemists and druggists before drafting a new Bill. If a Bill were introduced into Parliament upon which they were all agreed they would be bound to support it, and would have enthusiasm enough to get it passed by calling upon their members of Parliament and by agitation.

Mr. Paris (Glasgow) seconded, and the resolution was passed.

Doctors' Drug-shops.

Mr. David Robertson (Rutherglen) moved:—"That we request the Council of the Pharmaceutical Society to communicate with the Medical Council regarding the conditions under which open surgeries are conducted." Supporting the resolution, Mr. Robertson said the question of doctors' surgeries had been an open sore with chemists and druggists for a considerable time. Those surgeries were increasing in number, and with one or two exceptions they were conducted by boys or girls. Such a state of things should not be allowed to exist. Medical men should be brought in some way to a sense of the obligation that they took upon themselves when they opened shop for the sale of poisons. Mr. Robertson proceeded to instance several cases where poisons were administered in doctors' shops in quantities which qualified chemists had refused to supply, with, in one case, a fatal result; and he told also of serious mistakes in the deciphering of prescriptions being made by lads in charge of surgeries, concluding his speech by remarking that, as a matter of public safety, it was necessary that steps should be taken to see the law carried into effect.

Mr. Thomas Davidson seconded the resolution, which was supported by

The President, who said that Glasgow was the worst place in the country for surgeries. He had recently made a calculation regarding one of the West-end suburbs of the city. In that district there were, he thought, twelve shops where drugs were dispensed. One of these was kept by a registered chemist, and one was a branch shop which belonged to a registered chemist, but which was not in charge of a registered man. (Laughter.) All the other shops belonged to medical men, and there was not a qualified man in one of them. Such a state of things ought not to be allowed to exist. The Pharmaceutical Society ought to come to Glasgow and sweep them away. Mr. Paris (Glasgow), Mr. Martin (Motherwell), and Mr. McCowan (Paisley) having spoken on the subject, the President called upon

Mr. Rutherford Hill (Edinburgh) to contribute to the discussion. Mr. Hill said he should be inclined to doubt whether there was any great occasion for the resolution at all. The acts to which the preceding speakers had referred as being done in those open surgeries were illegal acts, which could be met by the ordinary law. A number of cases had been quoted in the course of the discussion, but he had no recollection of having heard of any of those cases, and, as they were aware, he was the Pharmaceutical Society's accredited representative in Scotland. He wondered why the gentlemen possessing such information and wishing to see the Act carried out did not take the trouble to place the information in the hands of the proper officials. Every case placed before the Society received the most careful consideration. The Society was anxious to see the law carried out. He was disposed to doubt the propriety of approaching the Medical Council at all. The very idea of the Pharmaceutical Society was to keep pharmacy as a distinct department of medical science. That was to say, the Society objected to medical corporations interfering with pharmacists, just as the Medical Council objected to pharmacists interfering with medical corporations; and if the Pharmaceutical Society were to go to them with a question of this kind it seemed to him they might meet them with this reply, "What do you want us to do? The administration of the law is placed in the hands of the Pharmaceutical Society. If you find these persons committing an offence it is for you to take action." He had no doubt that the Medical Council would agree with the Society in saying that this practice of carrying on open surgeries by unqualified persons was wrong and ought to be put a stop to, because in their own profession at the present time they were making strenuous efforts to put down unqualified practitioners, who were an injury to the medical profession. But he did not quite see occasion for this reso-

lution. The Society had endeavoured recently to show in Glasgow quietly, but emphatically, that they regarded the present condition of things in Glasgow as extremely unsatisfactory. They were hopeful that other members of the medical profession who were offending would take note of what they had done, and that it would not be necessary for the Society to take further steps against them, but that they might see it to be their duty to conform to the law. Should they fail to fully appreciate the Society's action something perhaps a little stronger might have to happen.

Mr. Adam (Glasgow) moved an amendment to the effect that, after the statement made by Mr. Hill, it was not advisable that they should ask the Pharmaceutical Council to approach the Medical Council, but that the Council of the Pharmaceutical Society be requested to inquire into the conditions under which open surgeries are at present conducted.

Mr. Moir seconded the amendment. He remarked that it would be a good thing if the Society were to ask Mr. Hill to reside in Glasgow for a short time. They could give him a good deal of work to do. (Laughter.) What they required was a new Act of Parliament altogether, and matters put on a different and more satisfactory basis.

The vote resulted in the amendment being carried.

It was resolved to transmit the resolutions to the Pharmaceutical Society.

Proprietary Articles.

The Chairman stated that there were at present a number of proprietary articles—such as Fellows's syrup—being sold which contained strychnine, and held that they ought not to sell that syrup without registering the sale in the poisons-book.

Mr. MeMillan said there could be no doubt it was an illegal act, but, nevertheless, they all appeared to sell the article.

Replying to a question, the Chairman said he would not even give extract of ergot on a medical student's prescription, let alone on a midwife's prescription. It ought never to be dispensed unless a medical man's prescription were produced.

Ginger-wine Essence.

A communication from Mr. Sutherland (Dumfries) was read to the meeting. It stated that the chemists there were glad that their brethren in Glasgow had raised the question relative to ginger-wine essences, and intimated that the trade there were not satisfied with the answer of the Chancellor of the Exchequer.

The Chairman said it seemed to him that if any person went into a druggist's shop for essence of cayenne or ginger, the druggist was entitled to supply it, although he was aware that druggists had been prosecuted for supplying those articles in one bottle for the purpose of making potable essences.

A gentleman asked if it was the case that they were only allowed to sell the article referred to by the leniency of the Excise.

The Chairman replied that that was so. He suggested—and his suggestion was adopted—that the Board of Inland Revenue should be written to and asked if chemists would be allowed to compound or sell according to a formula which was to be enclosed.

This concluded the business.

In the evening a smoking-concert took place in the Alexandra Hotel, and was most successful.

Personalities.

Mr. A. H. Mason has been elected a member of the College of Pharmacy of the City of New York.

Mr. W. K. Inglis, chemist, Delph, has been elected a member of the Saddleworth Board of Guardians.

Councillor John Taylor, F.C.S., chemist and druggist, of Torquay, has been elected a Fellow of the Linnean Society.

At Bridlington Local Board election Mr. H. J. Jackson, chemist, was returned at the head of the poll, with 1,024 votes.

Mr. R. W. Bowers, of the firm of Bowers Brothers, has been re-elected as a guardian of the St. Saviour's Union, Southwark.

Mr. J. E. Richardson, chemist and druggist, Yarmouth, Isle of Wight, has been elected parish churchwarden for the twenty-third year.

Dr. S. G. Connor, son of Dr. S. Connor, J.P., of Newry, has been recently elected one of the guardians for the parish of St. Anne, Westminster.

Mr. R. D. Lowe, chemist, has been elected a member of the Wolverhampton Board of Guardians; and Mr. J. Hyde, manufacturing chemist, has been returned to the Board for Wednesfield.

Mr. J. F. Harston, chemist, has been appointed overseer for the parish of St. Botolph's, Lincoln; Mr. W. M. Parker, chemist, for the parish of St. Mark; Mr. W. E. Hill, chemist, for the parish of St. Peter-at-Arches; and Mr. W. Cottingham, chemist, for the parish of St. Martin.

Mr. Samuel Dean, chemist, of Bow, who was returned a member of the Poplar Board of Guardians at the last election, has been elected Chairman of that body, in succession to the late Rev. Prebendary How. Mr. Dean has been a member of the Board for eleven years.

Mr. Edward Evans, jun., of the firm of Evans, Sons & Co., Liverpool, sailed this week by the *Teutonic* for New York. He will travel through the States and Canada to San Francisco and Vancouver. Mr. Evans is accompanied by three members of his family and the Mayor's son, Mr. Robert Holt, jun.

Mr. Richard Atkinson Robinson, chemist, of 195 Brompton Road, and Mr. Percy Wells, pharmaceutical chemist, of 20 Cambridge Gardens, Kensington, have been elected members of the Kensington Board of Guardians for the ensuing year. Mr. Wells was a member of the old Board, but Mr. Robinson, who was supported by the Kensington Ratepayers' Association, was a new candidate.

Several chemists of the Three Towns have been engaged in recent local contests. Mr. A. P. Balkwill was successful in obtaining a seat on the Plymouth Board of Guardians, whilst Mr. A. D. Breeze lost by fifteen votes on a heavy poll. Mr. Frank Maitland was returned third on the poll as a member of the Stonehouse Local Board. Mr. Maunder lost his seat at the election of guardians for East Stonehouse, after several years' service.

Mr. H. N. Grove, L.D.S., of Walsall, formerly a pharmacist, but now practising exclusively as a dentist, demonstrated at the recent meeting of the British Dental Association at Birmingham, his treatment of nasal and other facial deformities. A patient of the Queen's Hospital, who had suffered from advanced rodent ulcer, destroying the nose, cheek, and other bones of the face, had been provided, after removal of the diseased bone, with an artificial nose, part of cheek, part upper set of teeth, contour gum, and part lower set of teeth. The method of fitting these artificial portions was demonstrated, and the almost perfect concealment of the deformity was greatly admired.

The will, with two codicils, of the late Mr. Frederick Foster, of the Fernery, 353 Holloway Road, and 26 Eagle Wharf Road, Hoxton, engineer, of the firm of Barnett & Foster, who died on March 4 last, has been proved at the principal Probate Registry by the executors, Mr. W. L. White, 58 Hamilton Road, Highbury, chartered accountant, and Mr. J. B. Adams, 86 Cazenove Road, Stoke Newington, by whom the gross value of the personalty has been sworn at 29,440*l.* 3*s.* 3*d.*, the net value amounting to 29,312*l.* 9*s.* 4*d.* The testator, whose will bears date July 1, 1892, appoints his aforesaid executors guardians of his infant children, and bequeaths 350*l.* to Mr. White, and 100*l.* to Mr. J. B. Adams; to Dr. Savory, of Canonbury, he leaves his diamond ring and 5 guineas; to his foreman, Mr. Augustus Blaxter, 100*l.*, and desires his trustees to give Mr. Blaxter every facility to acquire his business or any business asset. He leaves 50*l.* per annum to his sister, Miss Mary Foster. His house, the Fernery, he leaves, with the contents, for the use of his four daughters, to the eldest of whom he leaves his silver presentation service. Subject to a few smaller legacies, the testator leaves the whole of his property in trust for the equal benefit of his four daughters, empowering the trustees to postpone realisation thereof, including the sale of his business, until such time as they may think fit.

TRADE-MARKS APPLIED FOR.

ANY person who has good grounds of objection to the registration of any of the following marks should *at once* communicate with Sir Reader Lack, Comptroller-General, at the Patent Office, 25 Southampton Buildings, Chancery Lane, London, W.C.

(*From the "Trade Marks Journal," April* 5, 1893.)

IZAL; for chemical substances and disinfectants. By Newton, Chambers & Co. (Limited), Thorncliffe Iron Works, near Sheffield. 171,127.

ZAMSON; for a medicated wine. By Hirst, Brooke & Hirst, Millgarth Mills, Leeds. 168,784.

MAPLE COUGH DROPS, device of maple leaf and wording; for medicinal cough drops. By C. B. Welsh, St. Paul Street, Burlington, Vermont, U.S.A. The essential particular is the device of the maple leaf. 169,105.

Diamond design, with white circle interior and signature; for medicated paper. By W. J. Alcock, trading as the British Patent Perforated Paper Company, 42 Banner Street, Golden Lane, London. The essential particular is the device. 169,397.

Device of woman and child in circular design, and wording; for diphtheria water—a medicine. By H. F. Oberläuter, 11 Friedrich-August-Strasse. Leipzig. The essential particular is the device. 169,910.

SYTAZIAL; ointment for human use. By F. G. Bridgman, 18 Queen Anne Street, Cavendish Square, London. 171,138.

Sketch of thistle and leaves as trade-mark; for fuller's earth. By the Scottish Fuller's Earth and Chemical Company, Dunning, Perth. 168,540.

Device of Godesberg Castle in circle, and wording; for mineral water. By A. H. Macnaghten, trading as The Godes-Berger Company, 17 & 18 St. Dunstan's Hill, London. 170,431.

Sketch of head with phrenological delineations and wording; for perfumery. By R. S. Hudson, Bank Hall, Liverpool. The essential particulars are the combination of devices and words, "Try your bumps." 170,033.

Device of medal with a soldier and sailor holding flags over shoulder and joining hands, and wording; for perfumery and toilet articles. By the Army and Navy Co-operative Society (Limited), 105 Victoria Street, Westminster, London.

Portrait of Thomas Moore, with device of shamrock, and name; for perfumery. By Oppenheimer Bros. & Co., 39 Wilson Street, London, E.C. The essential particular is the device. 170,470.

(*From the "Trade Marks Journal," April* 12, 1893.)

Device of three castles, monogram and name; for chemical substances used in medicine and pharmacy. By A. Howard, 132 Muslin Street, Newton Hyde. The essential particular is the combination of devices. 169,715.

CAMPHORA, signature, and other wording on circular label; for an ointment. By C. Richards, 51 Forest Lane, Stratford, Essex. The essential particular is the signature. 169,914.

OPOSSUM; for medicine for human use. By H. Collard, 26 Leadenhall Street. London. 170,013.

WILSON'S HERBAL TONIC, portrait of applicant and wording on label; for a herb-medicine. By J. Wilson, 5 Charles Street, Bradford. The essential particular is the portrait. 170,245.

PINK PILLS FOR PALE PEOPLE, other wording and signature on label; for pills for men. By G. T. Fulford, trading as the Dr. Williams' Medicine Company, &c., Brockville, Ontario, Canada. The essential particular is the signature. 170,403.

BYJOURRT; for a medicine for rheumatism. By W. R. Byrt, 40 Lucas Street, Deptford, Kent. The essential particular is the above invented word. 170,833.

ACERMINUS; for a neuralgia-remedy. By C. A. Prosser, 136 Brearley Street, Birmingham. 171,304.

GODES-BERGER, device of castle, and other wording, on label; for mineral water. By the Godes-Berger Company, 17 & 18 St. Dunstan's Hill, London. The essential particular is the device. 170,433.

HUIDAPHANE, and other wording and floral design on label; for a preparation for the hair. By F. W. Ziegenhagen, 11 Preston Street, Brighton. 170,255.

(*From the "Trade Marks Journal," April* 19, 1893).

QUE' RITE, and device of chanticleers on globe; for an embrocation for human use. By A. Barber, 3 Oxford Road, Hay, Breconshire. 167,537.

THE "ELK" BRAND and device of elk's head with antlers; for chemical substances used in medicine and pharmacy. By W. Caudery & Co., 1 Fenchurch Avenue, London. The essential particular is the device. 169,156.

Sketch of workman at table; for chemical substances used in medicine and pharmacy, By W. S. Potter (Limited), 31 High Street, Plaistowe, Essex. 170,231.

AYER'S CHERRY PECTORAL; for a medicine for human use. By J. C. Ayer & Co., Lowell, Mass., U.S.A. 170,425

AYER'S SARSAPARILLA; for sarsaparilla. By J. C. Ayer & Co., Lowell, Mass., U.S.A. 170,426.

AYER'S HAIR VIGOR; for a preparation for the hair. By J. C. Ayer & Co., Lowell, Mass., U.S.A. 170,428.

AYER'S CATHARTIC PILLS; for pills. By J. C. Ayer & Co., Lowell, Mass., U.S.A. 170,429.

Portrait of Richard Stothert, and Latin quotation; for drugs in class 3. By R. Stothert & Sons, Albion House, Atherton, near Manchester. The essential particular is the device. 170,577.

ZAROUBA; for chemical substances used in medicine and pharmacy. By R. H. N. Johnson, 9 Bond Street, Pentonville, London. 171,157.

THE GODIVA, and device of Lady Godiva on horseback; for perfumery and preparations for the teeth, &c. By C. J. Rees, 98 Grays Inn Road, London. 171,263.

Trade Notes.

MESSRS. R. HOVENDEN & SONS, of Berners Street, W., and City Road, E.C., have issued a new and extensive illustrated catalogue (376 quarto pages) of their various goods, among which are patent medicines, perfumery, brushes, and many other goods on the borderland of the chemist's province.

MESSRS. G. B. KENT & SONS, of Great Marlborough Street, W., are issuing their handsomely-produced "Catalogue of Toilet Brushware for 1893." It is illustrated, and contains, besides articles in everyday request, many items which chemists do not stock, as a rule, but which are wanted now and then.

WE recently mentioned in this section a new Eau de Cologne which was being introduced into this country. It was one of the "Gegenübers," and we inadvertently referred to the brand as "Gegenüber dem Julich's Platz," the great fame of this address accounting perhaps for the slip. We wish to make it perfectly clear that there has been no change in the agency of the famous old "Gegenüber dem Julich's Platz" Eau de Cologne, Messrs. J. & R. McCracken, of 38 Queen Street, E.C., remaining, as always, the sole agents for this country.

MESSRS. F. NEWBERY & SONS have for distribution a number of small showcards dealing with "ingluvin," the manufacture of Messrs. Wm. R. Warner & Co., of Philadelphia. The cards are artistic specimens of steel-engraving, and well designed for their purpose—viz., to bring ingluvin under the notice of physicians. Messrs. Newbery's town travellers now carry specimen show-bottles of Warner's "little pills" in a neat and compact case, and save the bother which chemists are sometimes put to by having samples spread all over their counter.

THE SUPPLY OF IPECACUANHA.

A Talk with an Importer of the Drug.

With the object of ascertaining, if possible, the reasons of the increasing inferiority of quality of the Brazilian ipecacuanha-root imported into London, a Chemist and Druggist representative a few days ago called upon Messrs. Knowles & Foster, the principal importers of the drug, who courteously intimated their readiness to tell him what they knew of the matter.

"We are aware," said the member of the firm who answered our representative's inquiry, "that the recent imports of ipecac. have fallen much below the standard to which we were accustomed some years back, and we have already written out to our correspondents in Matto Grosso on the subject more than once. Perhaps the unusual dryness of the last season in the collecting districts may have had something to do with the matter, but, whatever the cause, we should be only too glad to have the matter remedied."

"What the druggists complain about, sir, is that although half of what they get for their money is worthless wood, they have to pay almost double the average price of former years."

"Yes; it is true that the present prices of ipecac. are high compared with what they used to be, but I can assure you, nevertheless," answered our informant, "that they are not profitable to our friends in Brazil—in fact, I should not be surprised if some of the sales we have lately made (though nothing has been sold below 6*s*. per lb. at the auctions) have left a positive loss. The drug costs quite 6*s*. per lb. in Brazil at present, and we are constantly receiving advices from our shippers that the ipecacuanha shrub is becoming scarcer and scarcer, and that as time goes on the price will not fall, but is bound to rise. Had it not been for the exceptionally low rate of exchange that has prevailed, ipecac. would to-day be very much dearer than it is.

"And yet it seems, by the large arrivals that have taken place within the last few months, that there is plenty of root to be had."

"I do not think the supplies have been at all excessive; it is true that nine months back nearly 500 bales came almost in one batch, but since then there have been no such heavy consignments, and you should not forget that much of what has lately arrived has been Colombian root, so called 'Cartagena' ipecac."

"Just so; but, to return to the first point, do you not think that the enormously increased supply of the Cartagena variety, which is generally of excellent quality, and may be had at a much lower price than the Brazilian root, should be an incentive to your consignors to ship a fair merchantable article, so as not to force consumers to use the other kind?"

"Oh yes, we quite see that there is a certain danger in that direction, and when we write again to Brazil on this subject, which we shall do very soon, we shall lay stress upon that point. But you must consider the fact that the plant is all but exterminated in the districts easily accessible from Cuyabá and the other settlements in the State of Matto Grosso, from which all our supplies are now obtained." And the speaker, approaching a magnificent map of South America which hung on the wall of the office, placed his hand right upon the centre of the continent. "That," he continued, "is the part from which we get our ipecac. now. This district, upon the frontier of Bolivia, is only very imperfectly explored. The soil is marshy, and it is covered with tropical forest. Tribes of savages roam about, and the work of gathering ipecac. is neither safe nor pleasant enough to induce the lazy half-castes, who are the only kind of labour available, to undertake it, unless at a very high rate of wages. And you know what kind of people these collectors are. Ignorant and lazy, they never take the trouble to leave enough of the plant to give it a chance of growing again, and so, season after season, they have to go further afield, taking provisions with them, and frequently remaining in the marsh for weeks. The collecting, I think, goes on pretty well all the year round, and the root dug up is brought to the chief settlement, where it is packed and shipped down the river this tremendous distance"—indicating the route by a long downward sweep of the hand—"to Buenos Ayres or Montevideo, about two thousand miles. Steamers now ply on these rivers, and take about three weeks to accomplish the journey from the upper reaches to the Atlantic port. The freight, of course, is very high; but we hope that in a few years' time the railways, which are being pushed inland, will tap this district, and then we may again get the drug from Rio, where it came from many years ago, before the coast regions were exhausted. We deal directly with the merchants in Matto Grosso, so that we get the drug practically at first hand; and I repeat again, if we can do anything to improve the quality, it shall be done."

"It has been stated," interpolated our representative, "by an American pharmacist who a few years ago gave an account of the collection of ipecac. in the Amazon region, that the price of the drug depended, to some extent, upon that of indiarubber. When rubber was high, the collectors all went in search of that article only, and did not trouble about ipecac. Do you find that so in your district?"

"No, I think not. The supply of rubber from the State from which we get our ipecac. is very small—not more than 25 tons a year, perhaps—and ipecac., which is much the more important article of the two, cannot be affected by the price of the less valuable product. See here"—pointing to a region next to the ipecac. district—"there are in that part of the country numberless herds of wild oxen, and we import a lot of hides. Formerly the ipecac. used to be packed in serons made of these hides, but now we use only rough packing-linen, which is much cheaper, and the hides are sent separately, and fetch a good price in the London market."

And with that our representative took his leave, wondering whether there is going to be an improvement in the quality of the ipecac. shipments. Our informant, by the way, does not quite agree with Dr. Weddell, as quoted in the English and German editions of "Pharmacographia." Dr. Weddell states that the collection of ipecacuanha is somewhat relaxed during the rainy season, as it requires to be rapidly dried in the sun, which cannot so well be done then. He also says that the *poayeros*, or collectors, are always careful to leave a portion of the root in the ground, so as to allow the plant to grow again, which it does within the space of three or four years, when they return to the spot and gather a fresh supply. But Dr. Weddell's observations were made forty-five years ago, and since then the *morale* of the collectors has probably deteriorated, as well as the quality of the root.

Business Changes.

Mr. J. Smith, Lincoln, has disposed of his retail and dispensing business to Mr. G. I. Walker, late managing assistant with Messrs. Bardill & Co., Derby.

Mr. H. Clarke, chemist, Dover, is removing his business from 10 Cannon Street, to 67 Castle Street, owing to the premises being required for the purposes of public street improvements.

Messrs. Chancellor & Co., agents for Mack's starch and Rising Sun stove-polish, have removed from Charterhouse Buildings to larger premises at 13 Clerkenwell Road, E.C.

Mr. William Hurd, late of 270 Moseley Road, Birmingham, has purchased and succeeded to the old-established business of Mr. William Willis, Market Place, Uttoxeter, Staffs.

The business of the late Mr. Meshach Roberts, of 31 High Street, Bangor, has been purchased by Mr. Owen E. Thomas, his former assistant. Mr. James Shacklady, of Liverpool, valued for the vendor, and Messrs. Thomas Tomlinson & Son, of Manchester, for the purchaser.

The announcement in this column on April 1 that Mr. Ottey, of Burton-on-Trent, had removed his business from Waterloo Street to Derby Street was not quite correct. Mr. Bonner Morgan has joined him as a partner in the retail business at Waterloo Street, and Mr. Ottey tranfers the manufacture of certain specialities to Derby Street.

Bankruptcy Reports.

Re Joe Todd, Carlisle, Chemist.

An application was made at the Carlisle Bankruptcy Court for the discharge of the above debtor on April 13. The debtor was adjudged bankrupt on May 14, 1892 with unsecured liabilities first estimated at 636*l.* The proofs admitted only amounted to 527*l.*, but probable claims not yet proved amounted to 192*l.* The difference between the estimated and the actual liabilities was mainly due to the creditors proving for larger amounts than shown in the statement of affairs. The assets not in the hands of creditors were estimated at 2,927*l.* 10*s.* 10*d.*, but up to the present they had realised 306*l.* 11*s.*, and the probable value of the unrealised assets was *nil*. The bankrupt had put down as a good asset a claim of 2,000*l.* for damages against Joe Todd (Limited), by reason of his dismissal as managing director, and he also alleged a surplus of 575*l.* for 2,975*l.* deferred shares in Joe Todd (Limited), after deducting 900*l.* admitted to be owing or due to the company. There was no surplus, the value of the shares being over-estimated, and the company claim to be entitled to a larger amount than 900*l.* The balance available for costs and for distribution among unsecured creditors was 286*l.* 0*s.* 11*d.* A first and final dividend of 7*s.* 11*d.* was paid on proofs amounting to 527*l.* 14*s.* 5*d.*, and if the creditors for 192*l.* had proved their debts that dividend would have been reduced to 5*s.* $9\frac{15}{16}$*d.* It was evident from papers in his possession that as far back as 1884 the bankrupt was unable to pay his debts as they became due, and he had also omitted to keep such books of account as were usual and proper in the business carried on by him.

Mr. Sewell, on behalf of the debtor, said his client handed over all his books to the company on its formation at the beginning of 1891, and he was quite sure that if the Official Receiver had exercised his powers and inspected those books, he would have found that they would have fully disclosed the state of his trading for many years prior to the bankruptcy. The debtor every week made a careful and complete summary of the result of his business for the week, and these summaries fully disclosed his trading.

His Honour: How much did the company pay him for his business?

Mr. Sewell: They paid 300*l.* in cash, the balance being made up of 2,975 deferred shares, the company paying certain liabilities. There was a stipulation in the contract of sale that he should be employed for seven years absolutely as manager of the company at a salary of 250*l.* per annum, and at that time the debtor was fully justified in supposing even if the deferred shares had not paid a penny of dividend, that he would in the course of four or five years have been able to clear off all the remaining liabilities that were not cleared off by the sale to the company out of his salary. The debtor was for some unexplained reason suddenly dismissed from his situation as manager. This depreciated the value of his deferred shares, which he was obliged to keep in his own name for three years. If debtor had been allowed to fulfil his contract of service, he would have made those shares, if not of their full nominal value, at all events worth considerably more than he owed. He, therefore, contended that the reason the debtor had not paid 10*s.* in the pound was due, in the words of the Act, "to circumstances for which he could not justly be held responsible."

The Official Receiver said he thought the debtor ought to have been called.

Mr. Sewell explained that the debtor held a responsible position as manager of a chemist's business, and was unable to come at so short a notice. He took the blame for his absence upon himself, because he told him that he did not think he would be called upon to give evidence.

His Honour said it was usual for a debtor to be present.

Mr. Sewell asked for an adjournment, in order that the debtor might attend.

The Official Receiver said the remarks in his report as to the debtor's books were amply borne out by his own answers, which he then read. There could be no doubt that the debtor knew of his insolvency long before he filed his petition.

His Honour remarked that the company did not seem to think the business was insolvent, or they would not have paid the debtor 300*l.* in cash.

The Official Receiver: If your Honour knew as much of this company as we do locally, you might be of a different opinion. (Laughter.)

His Honour said he had heard a good deal about the company in that court. The case was then adjourned.

Re Robert Martin Jessop, Swinefleet, Goole, Chemist.

At the Wakefield County Court, last week, the above debtor applied for his discharge. The liabilities amounted to 431*l.* 9*s.* 7*d.*, and the assets realised 18*l.* 15*s.* 7*d.* A first and final dividend of 7*d.* in the pound had been paid. Judge Greenhow suspended the discharge for two years, on the following grounds:—A dividend of less than 10*s.* in the pound having been paid, proper books not having been kept, continuing to trade after insolvency, and debts having been contracted without any reasonable probability of payment.

Re George D. Bowie, St. George's Avenue, Tufnell Park, Chemist.

A petition has been lodged against this estate by creditors, and upon the application of Mr. S. R. Pollard, solicitor under the proceedings, the usual receiving-order has been made by Mr. Registrar Brougham. The debtor states that he left 17 St. George's Avenue last August, and now resides at No. 38 in apartments. He has a probable interest in a patent, but that appears to be the only asset, as the household furniture is the separate property of his wife and her sister, who possessed it prior to the marriage. Nothing transpired with respect to the amount of the liabilities.

Gazette.

PARTNERSHIPS DISSOLVED.

Deane, J., and Milne-Thomson, A., under the style of Deane & Milne-Thomson, Cheapside, Ealing, W., physicians and surgeons.

George, H. T., and Green, E. A., aërated-water manufacturers, brewers, &c., Worle, Somerset, under the style of Purrett, George & Co.

THE BANKRUPTCY ACTS, 1883 AND 1890.

Receiving Order.

Laffan, Edward Murray, Stretford, Lancashire, late of Egremont & Audlem, Cheshire, doctor of medicine.

Adjudications.

Eyre, George Frederick, Stockport, Manchester, and Alderley Edge Cheshire, late of Didsbury, Lancashire, until recently trading in co partnership with one Thomas Birch Griffiths as the Manchester Patent Lint Company, patent lint manufacturer.

Laffan, Edward Murray, Stretford, Lancashire, late of Egremont & Audlem, Cheshire, doctor of medicine.

Wicking, David, High Street, Marylebone, W., surgeon-dentist.

Next Week.

Meetings, &c., to be held, and business to be transacted thereat. Suitable notices will be inserted in this section if received by the Editor on or before Wednesday.

Monday, April 24.—*Chemists' Exhibition, Agricultural Hall, Islington, N.* Open during the week,

Wednesday, April 26.—*Midland Counties Chemists' Association.*—Visit to the Birmingham Small-arms and Ammunition Company's works at Small Heath. Train leaves Snow Hill at 2.15.

Thursday, April 27.—*Royal Institution of Great Britain*, at 3 P.M. Professor Dewar on "The Atmosphere."

Friday, April 28.—*Royal Institution of Great Britain*, at 9 P.M. Professor Francis Gotch on "The Transmission of a Nervous Impulse."

Saturday, April 29.—*Royal Institution of Great Britain*, at 3 P.M. James Swinburne, Esq., on "Some Applications of Electricity to Chemistry." (The Tyndall Lectures.)



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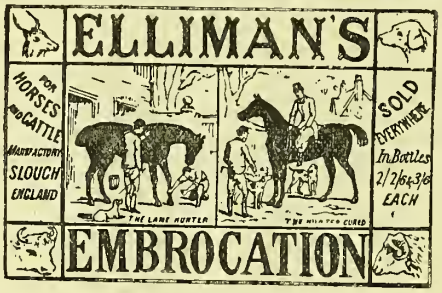
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See first page, facing inside of front of cover, of the first issue in this month, for latest particulars.

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Editorial Comments.

THE DETERIORATION OF IPECACUANHA.

It is a matter of notoriety among wholesale druggists that the quality of some of the most important kinds of crude drugs is seriously deteriorating, and that the same amount of

care that was given to their preparation twenty or thirty years ago is not now expended upon them. This lowering of the general standard of excellence of many crude materials is collateral with a marked improvement in the quality of manufactured preparations, and therein, no doubt, lies one of the reasons of the decay of the trade in natural, and the progress of that in artificial, products. The deterioration is particularly noticeable in those articles which we import from savage or imperfectly-organised countries, and in drugs which, owing to the want of direct communication, must pass through the hands of several intermediaries, who know nothing of their uses, and care very little for their condition, before they reach the European druggist. Rhubarb and jalap are cases in point, but the most striking instance of all, perhaps, is that of Brazilian ipecacuanha. The conditions under which this drug is collected and exported are of the most elementary description. Formerly, the greater part of it used to reach us from Rio Janeiro, and in those days it was presumably collected within a part of Brazil comparatively easy of access from the capital. But for many years the immense inland district of Matto Grosso has been the chief source of supply of the root, and at present it appears to be the only State of the Republic that furnishes the drug. From the chief points of population in that State the root is sent by steamer down the Paraguay and Paraná rivers (a distance of close upon 2,000 miles), to Montevideo or Buenos Ayres, where it is transshipped to Europe.

Until a few years ago there were no serious complaints against the quality of the Brazilian drug. The therapeutic value of ipecacuanha, as is well known, is due to the emetine contained in the annulated bark surrounding the ligneous heart of the root, and until about two years ago it was exceedingly rare to meet with a package containing a greater proportion of wood than what was unavoidably collected along with the drug. But recently there has been an unmistakable tendency on the part of the collectors to mix with the true drug a varying proportion of absolutely valueless woody matter, probably derived from the procumbent stem. It is hardly possible that they do so ignorantly, but, whatever the cause, they are sure to be themselves the ultimate losers by their want of honesty or care. We have been assured by wholesale druggists that in parcels recently landed the proportion of wood has been as high as 60 per cent., and the druggist who in former years could buy good commercial root at 3*s*. per lb., but has now to spend double that amount for an article of which the greater part is unfit for pharmaceutical purposes, naturally feels himself seriously aggrieved.

We have lately examined three representative samples of consignments of Brazilian ipecacuanha landed here within the last three months. The first of these contained 40 per cent. of the genuine drug (including the central woody portion, which, though therapeutically inert, may be ground up with the drug so long as it does not exceed the unavoidable proportion), 16 per cent. of dust and pieces too small for classification which, no doubt, possess a certain therapeutic value, and 44 per cent of absolutely worthless wood. In the second sample the proportions were 47, 11, and 42; in the third 43, 13, and 44 per cent. The results of this examination abundantly bear out the complaints of the wholesale druggists, and prove that nearly two-fifth parts of what is now offered at our drug-auctions as ipecacuanha is nothing of the kind. It is a nice point whether a drug-broker, knowing that one-third of a given article is not, to put it mildly, what it purports to be, is justified in withholding that fact from his customers. He will probably say that he sells by sample, and only offers what his principal instructs him to sell. The defence may be a sound one; but whether or no the big broker stands on a higher moral pedestal than the humble milkman who knowingly retails a fluid containing 30 per cent. of water, the position is almost as unsatisfactory to the wholesale druggist one way as another.

It is unfortunate for the wholesaler that the importation of ipecacuanha is in the hands of only three or four houses. If there were more people concerned in the business, competition would, no doubt, either level down the price or improve the quality of the drug. As it is, the question is one of "take it or leave it." If all the home druggists should unite to boycott ipecacuanha until they could get a fair article for a fair price, they would probably be unsuccessful in gaining their end so long as the exporters continued to buy the drug, and in the end their position might even be worse than it is now.

It seems to us that the undoubted grievance of the druggists in this matter is one that should be taken up by the recently revived organisation of the wholesale trade. Since it interposed in the citric and tartaric acids question, that body has not given any signs of public activity; but unless it is capable of remedying such grievances as that which we are now discussing, it may surely, for all practical purposes, as well disband upon the spot. A united and vigorously pressed representation from the London wholesale trade may possibly make itself felt even in sluggish Brazil, whereas isolated remonstrances are certainly doomed to futility from the moment of their inception.

In order to ascertain the feeling of what we will call the "other side" on this question, we called this week upon the principal importer of Brazilian ipecacuanha, whose views are set forth in another column. As will be seen, the Brazilian merchants are quite aware of the complaints that are made regarding the quality of the drug, and there seems no reason to doubt that they would only be too anxious to set matters right. A little gentle pressure may enable them to convince their friends in South America that the wholesale drug-trade here are in earnest, and the importers will probably be the first to welcome such pressure being put upon them.

The general question of the deterioration of so many important drugs is one of peculiar interest, though the causes to which the falling-off may be traced are so complicated and partly so interwoven with large problems of political economy, that it would lead us far beyond our scope to follow their ramifications.

One of the mainsprings of the lamentable fact lies beyond doubt in the insane haste and greed with which the "opening-up" of imperfectly organised countries is now being pursued. The reckless lavishing of money upon semi-savage South American countries (fortunately checked for the present), and the extension of steam-navigation and railway-communication into the interior of that continent have been followed by a criminal devastation of natural riches beside which the destruction of the North American forests is almost a venial offence. Nature is certain to avenge herself in time, but for the present the ravage of the South American indiarubber-trees and of all other valuable products of that favoured region flourishes as unchecked as did the demolition of the cinchona-forests a generation ago. Depreciation of quality is the natural consequence of such vandalism.

SYNONYMS.

People are beginning to realise how dangerous a thing it is to adopt popular names as synonyms for pharmacopœial articles. Since the Pharmacopœia authorities commenced to do this, we have maintained that the practice gives rise to great issues, affecting retailers and purchasers of medicines

and semi-medicinal compounds; therefore, that the selection of synonyms is a matter which should not be left solely to the representatives of the medical profession. The convictions for the sale of soda-water which contains no sodium bicarbonate are the cause of the present outburst of opinion; although it happens that in no case yet has anyone been fined under the Sale of Food and Drugs Act for retailing "soda-water" containing some sodium bicarbonate, however little. When that is done (as may be the case any day) the full significance of Pharmacopœia synonyms will appear with striking force. Meanwhile the *British Medical Journal* apparently fears the issue, and we welcome our contemporary's opinion on the matter as the first definite expression from the medical side. The *Journal* says:—

The really objectionable proceeding is the use of the term "soda-water" as a synonym for a medicinal preparation of the British Pharmacopœia. That is the only ground upon which it can be contended that "soda-water" should contain bicarbonate of soda, and we are at a loss to perceive what justification there is for adopting as a synonym of liquor sodæ effervescens a term that is notoriously used in such an unmeaning way as "soda-water." It appears to be trifling with the authority which the Pharmacopœia ought to have in matters of importance, and to raise in a most undesirable manner the question whether the Pharmacopœia is to be regarded not merely as an authority in respect to the preparation of medicines, but also as the standard by which the "nature and substance" of articles which are not medicines are to be regulated from a purely commercial point of view. We think that the attempt to force such a construction of the term "soda-water" upon the article commonly used under that name as a beverage is a very great mistake and a misapplication of the Food and Drugs Act, which can only be attributed to an excess of zeal on the part of the officers appointed under it.

When "soda-water" was adopted as a Pharmacopœia synonym there was no thought of making the formula for liquor sodæ effervescens any other than one for purely medicinal purposes. There was nothing further from the compilers' minds than an intention to make people drink the B.P. liquor when they want soda-water. But the decision in the sal-volatile and other cases has indicated how glad magistrates are to have anything in the way of an official standard to cling to when these difficult questions arise before them. In such cases the British Pharmacopœia is an authority which cannot be disregarded, and though it has never yet been statutorily declared to be a final reference, it is evident that very weighty technical testimony would have to be adduced to countervail it. Not only have several sal-volatile cases been decided by it, but the negative evidence of the failure of "milk-of-sulphur" and "sweet-spirit-of-nitre" cases, because defendants have been able to show that these popular articles are not defined in the British Pharmacopœia, has proved its power. The inference that if a thing is named in the Pharmacopœia the article sold must be in accordance with the Pharmacopœia description therefore becomes very strong; and it is quite an open question, in view of the sal-volatile decisions, whether any soda-water except the B.P. one can be legally sold as such. That will greatly depend upon the frame of mind of the magistrate when cases arise in which the offending article is one containing sodium bicarbonate, but less than 30 grains to the pint.

The moral of all this is that we should be exceedingly careful about incorporating synonyms in the Pharmacopœia. Pharmacists themselves are a little too anxious to multiply the list, some labouring under the mistaken notion that there is a good time coming when the sale of all that is included in the book will be restricted to those registered under the Pharmacy Act. Whether these ideas shall ever prevail or not we do not say. Perhaps the result will not be necessary; for with the growth of respect for the pharmacist's knowledge there is growing a disposition to treat his services more liberally. In any case it is evident that we must keep a sharp eye on the synonyms.

A PRELIMINARY EXAMINATION GUIDE.

We shall publish next week a particularly valuable "Complete Guide to the Pharmaceutical Preliminary Examination," for which, we think, every candidate for that examination will thank us. The "Guide" has been written for us by Mr. William Dodds, a tutor who has had an exceptional experience in the education of youths for examinations of this character, and the author of a similar "Complete Guide to Matriculation," and many other educational works. The large proportion of failures in this examination, which cannot be said to be an excessively severe one, is no doubt due to the circumstance that a large proportion of the candidates proceed to it without going through a systematic course of special training for it. Students of our "Guide" will be surprised to find how comprehensive and, at the same time, how clear is the instruction it conveys. It covers the subjects of Latin, English, and arithmetic, gives answers to all the examiners' questions of the past five years, and covers the field thus indicated. We quote the following from the author's introduction:—

It appears to us that two causes may be assigned for this high percentage of rejections. In the first place, as a matter of fact, many young men enter the examination-room, having had little or no special training, less with the object or the hope of succeeding than of being trained to succeed, trusting that the experience obtained in this way will enable them on some future occasion to satisfy the examiners. The failures in every year are, no doubt, largely made up of such candidates. But besides this hasty and insufficient preparation on the part of many students, the chief reason which may be assigned for the great number of failures at each examination is that so large a proportion consists of those who leave school before they have obtained a sufficient knowledge of the required subjects, and, being unable to command skilled assistance in their studies, are thrown entirely upon their own resources. To increase their difficulties they are often employed until a late hour each evening, and therefore have only a limited time for preparation at their disposal.

To the young men referred to above the "Guide" will be, we believe, extremely serviceable. It will by no means dispense with close personal application, but it will ensure that the work spent on preparation for the examination will be energy wisely applied.

The book will be obtainable through the usual wholesale houses, or from us direct, at 2*s.*, or post free 2*s.* 3*d.*

MR. SALA'S PRESCRIPTION.

It is risky to publish a charge of extortion against an individual; it is safe to libel ten thousand at once. Mr. Sala alleges in his journal, on the authority of a correspondent, that a grocer will sell for 7½*d.* what a chemist will charge 1*s.* 1½*d.* for. It would have been quite easy to have ascertained that this statement was an enormous exaggeration. An absolutely correct statement would not have been sensational at all, however, and paragraphs must be provided; but George has no inclination to be beaten in strange experiences by a correspondent. He therefore turns the subject on to prescriptions.

The Pharmaceutical Society (he says) might issue a scale of charges for making up prescriptions with much

advantage to everybody. I happen to have a physician's prescription which for many years has been necessarily carried about the country and on which I have recorded for my own information the sums which I have been charged for "accurately preparing." I dare say no one will be surprised to hear that 5*s*. 6*d*. is the "top"—a London figure—and that not the lowest, but the last "accurate preparation" by a duly qualified member of the craft figures at 1*s*. 6*d*., "bottle included."

Has Mr. Sala never heard of any variation in the fees paid to journalists? There is such a thing, too, as market fluctuations, and his precious prescription may order a medicine which necessitated a higher charge in the 5*s*. 6*d*. day than now.

SALE OF POISONOUS STAMPED MEDICINES.

The proceedings of the Pharmaceutical Society in regard to the sale of poisonous stamped medicines by unqualified persons show an astonishing carelessness. It is satisfactory to notice that they are not confining their attention to chlorodyne, but are buying from unqualified persons bottles of other poisonous stamped medicines. But they ought to look after their agents a little more closely. A month ago we reported the dismissal of a summons because the purchaser had to admit that he "might have been drunk at the time" he bought the article, which that time was Fellows's Syrup. Last week a case was heard at Brentford, in which it was shown that the purchaser had been buying chlorodyne at some shops and Powell's Balsam at another, and had mixed up his spoils, so that the grocer who sold Powell's Balsam was summoned for selling chlorodyne, and, of course, got off. Mr. Beck, we notice, for the defendant, was prepared to defend in regard to Powell's Balsam, a somewhat bold announcement. We hope he will be given the opportunity; and we may also take this opportunity of urging that Messrs. Kay's courageous intention of defending the sale of their compound under a patent which apparently does not apply to it should be tested.

THE CHEMISTS' AND DRUGGISTS' EXHIBITION.

There is a delicate irony in the item of news which we report from the London County Council this week. That body has given formal consent to the Chemists' and Druggists' Exhibition being held in the Agricultural Hall, but one of the stipulations is that "not more than 5,000 persons shall be in the hall at any one time." The visitors to the exhibition may be expected to be principally chemists and druggists, and, considering the difficulty of getting even a hundred or two of these gentlemen to assemble for any purpose whatever—at all events in London—the chances of infringement of the Council's condition may be regarded as fairly remote. The exhibition is to be open from Saturday (to-day), and will remain open throughout next week. From the information which has reached us, we believe there will be a very interesting collection of druggists' goods on view.

THE INSTITUTE OF CHEMISTRY PROPOSALS.

Professional chemists in this country will attain a very lofty moral altitude if the Censors of the Institute of Chemistry can have their way. These gentlemen wish, as will be seen from a notice we publish elsewhere, to have it declared that any form of advertising or touting for practice is professionally discreditable. This is in accord with the principles which govern the professions of law and medicine, and as we are not aware that analytical chemists are very lavish advertisers—that is to say, of the paying genus—we do not know that newspapers or printers will suffer much by the formal adoption of this view. The public will certainly be benefited if it can be found practicable to suppress the issue of pretended scientific certificates "not based upon the results of an analysis, or containing exaggerated, irrelevant, or merely laudatory expressions, designed to serve the purposes of a trade puff." The other proposals are, however, more objectionable. The insidious attempt of the Censors to interfere with the fees which analysts may charge, and to circumscribe the market for their services, is not, we venture to think, wise or well considered. Their fourth proposal, if adopted, would prevent any Fellow of the Institute from accepting a commission—say, from the proprietors of this journal, from the *Lancet*, or from the *Times*—except on conditions as to publication which might not suit the paper. What is there discreditable in such employment, and what ultimate advantage is there in interfering with the fees to be charged for such work? The Censors will probably say they do not strike at such contracts. In that case it might be better that they should express themselves differently. It is noticeable that they do not propose to declare it discreditable that chemists should publish as their own work which has been done by other people. The law courts will probably take that in hand, as they did in Ireland recently.

INFANTS' FOODS IN INDIA.

According to the *Indian Medical Record* large quantities of infants' foods in tins are consumed in India, but staleness is a serious bar to their use, and the first proof of their deleteriousness comes with the illness of the child. Physicians have constantly to discard the use of these foods because they present no definite and reliable criterion as to their wholesomeness or freshness. A bottle or tin of food manufactured in England in 1890 may be sold in India to a purchaser in 1893. A brand of goods loses its reputation from evil results following the use of a few old specimens that lie in the market, the chemist selling them for fresh stock. Our contemporary, therefore, suggests that manufacturers should stamp the date of manufacture on all foodstuffs.

THE "NINE CIRCLES."

The Victoria Street Society for the Protection of Animals from Vivisection has just issued a revised edition of the famous "Nine Circles," about which such bitter controversy raged last autumn. A committee of the Society has carefully revised it, in view of the inaccuracies which Mr. Victor Horsley printed, and which that investigator considered glaring enough to justify him in repeatedly describing Miss Cobbe as "a liar." Miss Cobbe's name no longer appears on the title-page. Miss G. M. Rhodes is named as the compiler, and the treatise is introduced by a vigorous article from the pen of Mr. Edward Berdoe, M.R.C.S. Mr. Horsley's charges are all dealt with. They consist of twenty-two instances in which in the original papers the use of anæsthetics was indicated, but which the compiler of the "Nine Circles" has omitted to mention. Explanations of the omissions or admissions of them are given in every instance. Generally they were due to the fact that the reports of the experiments were taken from abridged sources. No one doubts that so many inaccuracies were serious blemishes in a controversial work of this character, but both sides are perfectly aware that they do not affect the general argument in the smallest degree. That English vivisectors use anæsthetics in their experiments more generally than those who work in foreign physiological laboratories is generally admitted, but they themselves recognise that, to a certain extent, this modifies the certainty of their results. The "Nine Circles of Tortures," which are illustrated by quotations of physiological experiments in this book, are described under the headings of Mangling, Artificial Disease, Poisoning, Suffocation, Burning and Freezing, Starvation, Flaying and Varnishing, Miscellaneous Torments, and Moral Experiments. The book is published at 20 Victoria Street, S.W., at 1*s*.

C

Legal Reports.

Analysing Dandelion Coffee.

A grocer at Pontardulais was summoned at the Swansea County Police-court last week, on a charge (under the Sale of Food and Drugs Act) of selling as dandelion coffee a mixture which Dr. W. Morgan, the Swansea analyst, certified was a mixture of coffee and chicory. The same defendant had been previously similarly charged, and the summons had been dismissed. The dismissal of the summons had been appealed against, and the appeal had been rejected. In this case Dr. Morgan was put into the box by Mr. Edmonds, who appeared for the defence. At the outset, Dr. Morgan complained that on the last occasion he was called by the defence he had not been paid any fee, and asked who was to remunerate him, as when he gave evidence for the police he was always paid for it.

Mr. Edmonds replied that Dr. Morgan was the public analyst, and was bound to attend to give evidence when requested. After a short discussion, the Bench ruled that he must submit to cross-examination.

Dr. Morgan maintained that his duty as an analyst concluded directly he made out his certificate, but decided to give evidence under protest.

By Mr. Edmonds: Did you make the analysis yourself?—I am responsible for the analysis; it was done under my direction and supervision.

Will you be good enough to answer my question.—I can give you no other answer than that; if you ask me whether I carried out every detail myself, I say "No."

Are your assistants in Court or available to give evidence?—Yes, they are available, if you like to send for them.

What was the specific gravity you obtained?—The specific gravity was 1·019.

What was the specific gravity after dividing?—After dividing what, sir?

Coffee and the other mixture?—I have given you the specific gravity of the sample as a whole.

Replying to further questions, Dr. Morgan said the mean specific gravity of chicory was 1·023.

Mr. Edmonds: Dr. Bell gives it as 1·021.

Dr. Morgan: I do not pin my faith to Dr. Bell entirely; neither is he an authority.

Are you infallible?—No, neither are you. (Laughter.)

Do you take part in every other analysis?—So far as possible.

Dr. Morgan was pressed as to this question, but said he would not give any other answer.

Mr. Edmonds: I hope the Bench will take note of these prevarications.

Dr. Morgan: It is not prevarication; I can give no other answer.

Mr. Edmonds (continuing): When you got these figures 1·019, what conclusion did you arrive at?—That the mixture contained 72½ per cent. chicory and 27½ per cent. coffee.

Are you in the habit of analysing coffee when there is a suspicion that there is something different on the label; how do you generally start? Do you test the article it is supposed to contain?—I cannot separate them.

Wait a moment, I am giving you a hypothetical case. Now, take mustard for example; I suppose you would first examine the pure mustard?—No.

What would you do?—Examine the sample.

But how do you know what is pure mustard?—I make preliminary tests.

That is what I mean. Now what tests did you employ with regard to this coffee?—I took the specific gravity, the taste and the colour test.

Did you not test it in comparison with some coffee you had?—Yes.

Mr. Edmond (to the Bench): Now I think I am entitled to ask for that to be produced?

Dr. Morgan: I cannot—it's destroyed; besides, it is my own private property, and I cannot be compelled to produce it.

Mr. Edmonds (continuing): Have you any samples that you have tested?

Dr. Morgan: Yes.

Will you allow an expert for the defendant to examine them at your place?—I will refuse to allow any expert in my office to revise my work. It is against all rules.

You have not the courage of your tests?—Oh, yes; I have stood too many convictions to be afraid of the present case. You know that at the Quarter Sessions.

But, Dr. Morgan, you also know that it was not upon the question of the similarity of chicory and dandelion that that appeal was dismissed.

Dr. Morgan: Will you allow me to say that I protest against your imputing to me any dishonest practice whatever. I have no interest in the case.

Mr. Edmonds: Now, are not the specific gravities of dandelion and chicory practically the same?—Yes, they are.

Yet you are prepared to swear that this is chicory?—To the best of my judgment and opinion it is chicory.

Are you prepared to swear to it?—I adhere to what I say on the certificate.

James Lewis, a practical chemist, and managing director of the firm of Jas. Lewis and Co., Cardiff, the manufacturers of the dandelion coffee in question, stated that the mixture contained dandelion root and pure coffee only, and went on to explain that there was no test by which any scientific chemist could distinguish any difference between the two roots, nor between any extract which might be obtained fresh from the root of either plant. In their roasted state it was utterly impossible for any chemist to find any difference, as they were medicinally alike. As to the taste test, that depended entirely upon the palate of the person, as it was well known that anyone accustomed to bitter drinks did not find them so bitter as a person who was not so accustomed to their use.

After a short retirement, the Bench announced that the case would be dismissed, without costs.

Holloway's Advertisements.—Judgment in the "Guardian Angel" Case.

Mr. Justice Charles, sitting in the Queen's Bench Division on Saturday, delivered judgment in the case of the Hanfstængl Art Publishing Company and another *v.* Holloway. This was an action by a company of Munich, Bavaria, and their agent in London, against Sir George Martin Holloway and Mr. Henry Driver Holloway, of 78 New Oxford Street, sole proprietors of Holloway's pills and ointments.

The plaintiffs, as proprietors both in Germany and the United Kingdom of the copyright in a picture entitled the "Guardian Angel," painted by Bernard Plockhurst, asked for an injunction against Messrs. Holloway, restraining them importing into the United Kingdom, exhibiting, or distributing copies of the picture as advertisements for their pills and ointments. Plaintiffs also claimed damages for the infringement of their copyright, and the delivery up to them of the 400,000 copies of the picture now in the hands of Messrs. Holloway.

The defendants did not admit that the plaintiffs were the owners of the copyright either in England or in Germany. The defendants pleaded that the International Copyright Act of 1886 did not apply to this picture, or, if it did, the plaintiffs had not the necessary registration. The trial of the action took place in January.

Mr. Finlay, Q.C., M.P., and Mr. T. E. Scrutton were counsel for the plaintiffs. Sir Edward Clarke, Q.C., M.P., Mr. Chadwyck Healey, Q.C., and Mr. Methold represented Messrs. Holloway.

Mr. Justice Charles, in giving judgment, said the plaintiffs were the proprietors both in England and in Germany of the picture entitled the "Guardian Angel." The picture was exhibited in Berlin in 1886, but no copies were allowed to be taken. The copyright was assigned to the plaintiff company on March 27, 1887. Messrs. Holloway, for the purposes of their trade, caused their agents to make copies of the picture on cards, and on the back of these cards were advertisements of Holloway's pills and ointments. Some advertisements were in prose; others in poetry. It was not denied that all the copies of the picture were infringements. Therefore the questions which he had to decide were questions of law. But before dealing with the law he should state that the plaintiffs in 1891, having discovered the infringements, registered their copyright. If this registration was un-

necessary, then it was agreed that the damages should be 100*l.* If the registration was necessary, the damages were, in his opinion, nominal, the writ having been issued within a few days of the English registration, and the defendants having given an immediate undertaking to discontinue publishing and distributing any further copies of the picture. The rights of foreign authors in England arose under a part of the Berne Convention of September, 1887, and the Order in Council issued in that year under the authority of the Copyright Act of 1886. In Germany since 1876 there had been copyright of German works. The three points of law which arose in the case were:—(1) Did the International Copyright Act of 1886 apply to works published or made before the date of its passing? (2) Must the copyright be registered under the provisions of the English Copyright Act, 1862, in order to entitle the owner to sue in respect of an infringement? and (3) did the proviso in section 6 of the Act of 1886 preclude the defendants? His Lordship having recited the articles in the Berne Convention, and certain sections of the Copyright Act, said he came to the conclusion that the three questions of law must be decided in the plaintiffs' favour. His judgment would be for the plaintiffs for 100*l.* damages, as agreed, and costs. He also granted the injunction in the terms asked for, and ordered the defendants to deliver up all the unlawful copies of the picture in their possession.

Mr. Finlay: As to costs, I would ask your Lordship that there should be costs on the higher scale. This is an important case, raising a good many points.

Mr. Methold: Oh, it is a mere question of trifling damage.

Mr. Justice Charles: I see no reason to make any special order as to the costs.

"Plain Soda."

At Teddington, on Monday, Henry P. Harris, of the Railway Hotel, Feltham, was summoned for having sold soda-water which was not of the nature demanded. Defendant said he told Messrs. Zissel & Co.'s foreman that he would not receive any more soda-water unless he would guarantee that it contained bicarbonate of soda, and Mr. Zissel wrote him a guarantee. The Bench accepted the warranty and dismissed the summons, expressing the opinion that there was no intention to defraud.

Pears's Pictures.

In the Queen's Bench Division of the High Court of Justice on Monday, before Mr. Justice Wright, the case of the Attorney-General and Glave *v.* A. & F. Pears (Limited) came on for hearing. Mr. McCall, who appeared for the plaintiff, Mr. Henry Glave, mercer, &c., of New Oxford Street, said that the action was for an injunction restraining the defendants from so advertising their business as to collect crowds in front of the plaintiff's shops. Before 1891 the defendants relied for an advertisement upon a fixed picture on the first floor of their premises. No doubt that picture did cause a great number of people to stop and admire it, but not to an extent that the plaintiff could reasonably complain. In February, 1891, the defendants thought that a much more attractive form of advertisement would aid the business of Pears' soap, and they accordingly added to the picture a number of movable scenes, which had the effect of collecting in front of plaintiff's place of business, which was directly opposite the establishment of Messrs. Pears, a somewhat motley crowd. The crowd was not one likely to make any extensive purchases of Pears' soap, though no doubt many of them required soap In fact, it was mostly composed of people who were not likely to use Pears' soap even if they got it for nothing. In the month named the plaintiff wrote to the defendants complaining of the crowds that collected, and which he said had an injurious effect upon his business. From that time the plaintiff had no reason to complain until August, 1892, when the exhibition of these views commenced at an earlier hour, and a variety of polychroic effects were introduced. One of the pictures was a man asleep in a chair, and a lady trying to kiss him, though what relation that had with soap he did not know. (Laughter.)

Sir Edward Clarke, who represented the defendants, said the more important question was what relation the lady was to the man. (Laughter.)

Mr. McCall said the result of all this was that, in consequence of the crowd that collected, the plaintiff was seriously inconvenienced, and he could show that during the progress of the exhibition, there was a serious falling-off in the business.

The case had not concluded on Monday, and on the resumption of the case on Tuesday Sir Edward Clarke said he was happy to say the parties had come to an amicable arrangement, by which the action would be discontinued, without costs.

Adulterated Chewing-gum.

Nicholas Worsley, a confectioner, 184 London Road, Liverpool, was summoned before Mr. W. J. Stewart, stipendiary magistrate, on Wednesday, for selling chewing-gum which was not of the quality and substance demanded Mr. Pierce, from the Town Clerk's office, prosecuted. Dr. Brown's certificate stated that the foreign matter in the gum consisted of 20 per cent. of paraffin, and he added, under the head of "Observations," "the paraffin is neither usual nor necessary, and it has been proved by experience to be risky to the health of children." The defendant said he was perfectly innocent in the matter; he sold the article as he bought it. Mr. Stewart imposed a fine of 10*s.* 6*d.* and costs.

Quinine Bitters—Alleged Infringement of Trade-mark.

The case of the Quinine Bitters Manufacturing Company (Limited) *v.* Davis came before Justice Cave and a special jury in the Queen's Bench Division on Thursday this week. It was an action by a limited company carrying on business at Llanelly and manufacturing quinine bitters against Mr. John Davis, manufacturing chemist, Swansea. The plaintiffs claimed damages for alleged infringement of their trade-mark, and an injunction restraining further infringements. The defendant did not admit any infringement.

Mr. Murphy, Q.C., and Mr. Israel Davis were counsel for the plaintiff; Mr. Smyley, Q.C., and Mr. Ashcton Cross appeared for the defendant.

Mr. Murphy said the questions for the jury were (1) whether there had been an infringement of the plaintiffs' trade-mark, and (2) whether the defendant ought to be allowed to sell his preparations, pretending to the public that they were the plaintiffs', which were well known in the market. In 1874 Mr. Wm. Evans began to sell a preparation which he called "Quinine Bitters." Quinine was, of course, well known, and bitters was well known; but the mixture he invented, and he gave it the name which was now well known. In 1878 Mr. Evans registered the preparation as his trade-mark. On the face of the trade-mark was a description of the character of the preparation. The label had on it:—

> Quinine Bitters, or Vegetable Tonic.—These bitters assist digestion, strengthen the nerves and blood, purify the blood, and brace up the system generally. Dose: One small tablespoonful in an equal quantity of cold water three times a day, before meals. Wm. Evans, manufacturing chemist, Llanelly, South Wales.

That was registered as the trade-mark. Having started in business, Mr. Evans proceeded to do that which was a necessity in modern times—viz., spend large sums in advertising. In his advertisements Mr. Evans invariably inserted at the top, "Great Welsh Remedy." He worked up a very large business. In 1888 Mr. Evans assigned his trade-mark and his business to the present plaintiffs, and became the managing director of the company. Amongst other customers of Mr. Evans, and afterwards of the company, was the defendant. Mr. Davis did a large business with the plaintiffs until 1890, when he began to manufacture quinine bitters himself. He told the plaintiffs if they would not lower their prices he should make his own. The defendant did make his own, and imitated the plaintiffs' trade-mark and labels very closely. Instead of calling his preparation "Davis's Quinine Bitters," the defendant called it simply "Quinine Bitters," and instead of putting his own name and address on the bottles he printed these words, "Prepared only at the Quinine Bitters Manufactory, Swansea." The figure of an archer which was on the plaintiffs' label was left out,

but defendant put in the trees so as to give a somewhat similar resemblance. The words, "The Great Welsh Remedy," which Mr. Evans used, were also adopted by the defendant. Mr. Davis called his preparation, like the plaintiffs, a "vegetable tonic," and copied plaintiffs' advertisements almost word for word, saying, "These bitters assist digestion," &c. He printed the dose on the bottles, and the dose was exactly the same as Mr. Evans's. The defendant's bitters were packed in wrappers similar in colour, with the same water-mark. In consequence of this conduct of defendant the present action was commenced, and an interlocutory injunction obtained against the use of the words, "Quinine Bitters Manufactory, Swansea." The learned counsel then submitted that the defendant had copied the plaintiffs' labels so closely as to infringe the trade-mark.

Evidence was then called.

Mr. Wm. Evans, pharmaceutical chemist, and managing director of the plaintiff company, said he invented "Quinine Bitters" in 1874, and registered the preparation in 1878 as his trade-mark. He knew that no such name was on the market before his preparation. His label had the figure of an archer, with trees in the background. He could produce to the Court a great number of handbills advertising this as "The Great Welsh Remedy." When he turned his business into a limited company he had millions of circulars sent out advertising this as "The Great Welsh Remedy." In the last two years the company had distributed 12,000,000 pamphlets. The defendant was a customer of witness since 1876, and also a customer of the company since its formation. The invoices sent by plaintiffs to defendant had on top, "Quinine Bitters Manufactory." Last year witness saw Davis, and expressed surprise that defendant was making quinine bitters and selling the preparation in the way he did. Defendant said, "I have taken the best advice, and know perfectly what I am about." Witness then explained to the jury that the defendant had imitated his labels very closely. The labels of the defendant, after exposure in the window for a few days, faded to the same colour as plaintiffs'. The name over defendant's shop was "West Glamorgan Drug Stores," but on the bottles of quinine bitters defendant gave his address as "Quinine Bitters Manufactory." The defendant did not give that address for anything else. The price marked on plaintiffs' bottles was 2*s.* 9*d.* and 4*s.* 6*d.* Defendant marked his bottles 2*s.* 9*d.*, and sold them and marked them up in the window at 2*s.* The trade in 1891 was 103,000 bottles, and in 1892 96,000; and the trade in Swansea in 1891 was larger than the trade in Swansea in 1892.

Cross-examined: He did not attribute the whole falling-off to the defendant's action. Was not aware that defendant, up to time action was brought, had only sold three dozen 8-oz. bottles, or that for six months after defendant made his own quinine bitters he sold more of the plaintiff company's than he had ever done before. There was one man who called his preparations "Great Welsh Remedies." It was not the custom for chemists in Wales to call all preparations the "Great Welsh Remedy." He knew the defendant made a preparation which he called "The Great Welsh Drink," and that was an imitation too. The plaintiff company had advertised their quinine bitters in 320 newspapers as "The Great Welsh Remedy." The words "Quinine Bitters" had never been put together before witness put them together. The words correctly described the article sold. He tried to register the title "Quinine Bitters," but was not successful. The plaintiffs' quinine bitters "assisted digestion." He did not know how defendant could say his preparation assisted digestion except by putting it on the label.

Re-examined: People generally wrote to him for "quinine bitters," not "Evans's Quinine Bitters."

Mr. Justice Cave: You are not entitled to monopolise the whole sale of quinine bitters. But if there are persons who have learned to know and like your bitters, and come and ask for that, and they are capable of being deceived by having the defendant's put into their hands, that is a different matter.

Mr. Murphy: I merely wanted to show that in commerce when people want our bitters they simply ask for "quinine bitters."

Mr. Carteighe, of Dinneford & Co., pharmaceutical chemists, of Bond Street, and President of the Pharmaceutical Society, said he was well acquainted with Evans's Quinine Bitters. Until recently he did not know of anyone selling this article except the plaintiff. There is no other preparation of quinine bitters mentioned in the British Pharmacopœia, or in any other standard work on medicine. He first saw the defendant's bitters about a year ago: it was brought to him by a friend of the plaintiff, Mr. Evans. When asked by customers for "quinine bitters," witness always gave Evans's Quinine Bitters, as he kept no other. Evans's preparation was known in the trade as "quinine bitters."

Cross-examined: Both the bottles of plaintiffs and Davis were peculiar-shaped bottles, not bottles usually kept in stock. Witness was the manufacturer of Dinneford's fluid magnesia.

By a juryman: The defendant had never offered to supply witness's firm with quinine bitters.

Mr. S. M. Burroughs, of the firm of Burroughs, Wellcome & Co., of Snow Hill, manufacturing chemists, said he had known the plaintiffs' preparation for several years. He had seen a bottle of the defendant's mixture.

When you saw it, what did you think it was?

Mr. Justice Cave: You cannot ask that question—unless this gentleman is a specialist in imitating other people's goods. (Laughter.) In a case like this very little can be done by evidence. The jury must take the two bottles and labels, compare them, and give their opinion. It is for the jury to say whether the bottles are alike. That is the question to be left to the jury.

Mr. John Morris, of Morris & Jones, St. Thomas's Buildings, Liverpool, said they had dealt very largely in quinine bitters.

Counsel wanted to ask the witness if the defendant's preparation was like the plaintiffs', and another discussion arose as to whether the evidence was admissible.

Mr. Justice Cave: I shall ask the jury to take these bottles in their hands, and to suppose that a person goes into a shop wanting plaintiffs' quinine bitters and gets the defendant's. I shall then ask them if the customer would be deceived. All this about "Great Welsh Remedy" on top, and "Prepared only at Quinine Bitters Manufactory" at bottom, will tend to show that the defendant calculated upon such a mistake being made. But all these cases depend very much on advertising. An enormous sale may be got by advertising, which immediately you leave off will drop to nothing again.

Mr. Murphy: I merely want to meet the suggestion of the defendant that when people want our bitters they always ask for Evans's Quinine Bitters.

Witness was then asked if he knew of any other quinine bitters than the plaintiffs', and he said he did not.

Cross-examined: He was a shareholder in the plaintiff company. (Laughter.) He could not remember how many shares he had.

Mr. John Munday, chemist, Cardiff, stated that he knew the plaintiff's preparation very well. He knew of no other preparation in the market until this action.

Cross-examined: He had made a mistake—he had heard of Dr. Griffiths's Quinine Bitters, which were sold by the firm of Pegler & Sons, of Swansea and elsewhere. The Cardiff Drug Company's bitters had been brought out since this case began.

Mr. Murphy: I shall adopt your Lordship's suggestion, and close the plaintiff's case now.

Mr. Smyley then addressed the jury for the defendant. He asked the jury to use their eyes and common-sense and say if Mr. Davis's preparation could be mistaken for the plaintiffs' bitters. Mr. Davis had purchased quinine bitters from the plaintiffs for many years, and, in fact, was doing so now. Messrs. Pegler & Sons had a shop exactly opposite Mr. Davis's shop; Pegler's had branch shops in about forty places, and sold Dr. Griffiths's Quinine Bitters at a cheap rate. When Peglers' stuck up in their window Dr. Griffiths's Quinine Bitters, the defendant suggested that the plaintiffs should lower the price of their bitters so as to enable him to compete with his opposite neighbour. The plaintiffs would not reduce the price, so Mr. Davis thought he would make his own quinine bitters. He had sold but little of his own bitters. In fact, the defendant had sold more of the plaintiffs' goods since he began to make his own. (Laughter.) The label was not made up with a view to copying the plaintiffs', or with a view of palming off his goods as the plaintiffs'. The plaintiffs had no right to claim the words "Quinine Bitters" as their exclusive property. The defendant could not have done more than he had to dif-

ferentiate his quinine bitters from the plaintiffs'. The defendant's preparation was from a prescription by Dr. Rawlings. The dose was accurately copied from the prescription upon the bottle. The bottles which were selected for the quinine bitters by the defendant were the same panel bottles as were supplied to him for other preparations he made and sold. As to the labels, if there was a resemblance to the plaintiffs', the resemblance was quite accidental, because the designs were prepared by Mr. Davis, in conjunction with a printer's traveller named Luxton, from a sample-book of labels. The words "quinine mixture" were a correct description of the contents of the bottle, and as to the words, "this preparation assists digestion," &c., they were quite justifiable. The defendant wanted the public to know that his mixture was a tonic to assist digestion. It was no good making the public think it was a cure for broken legs. (Laughter.)

Mr. John Davis, the defendant, said he carried on business at 30 High Street, Swansea, as a manufacturing chemist. Over his business premises was "West Glamorgan Drug Stores." He put that to distinguish the business from four other Davis's in Swansea. He had been making the Richmond Hair Extract for many years and selling it in 8-oz. panel bottles. He took over the business and stock of a man named Williams, and the panel bottles were amongst the stock. He confirmed his counsel's statements about asking plaintiffs to reduce their price. As they would not, he began making up a prescription, which he found in his prescription book, from a Swansea doctor, and he put the preparation in the same bottles as his Richmond Hair Extract. He called the preparation just what it was, "quinine bitters." The labels were selected from a pattern-book his stationer, Mr. Luxton, brought round. His label was compounded from other labels in the book. Neither witness nor Luxton referred to William Evans's label. The green tree was supposed to represent the Welsh oak; that was not copied from the plaintiffs. He put at the bottom of his label "Prepared by the Quinine-bitters Manufactory" because there were so many chemists in Swansea named Davis, and they refused to sell his stuff with his name on. Panel bottles were almost always used for patent medicines because they were stronger. He continued to sell the plaintiffs' preparation. The distinction was that plaintiffs' was wrapped in green, while his own preparation was wrapped in blue paper. He had only sold about six dozen small and eleven dozen large bottles of his preparation with the labels complained of.

Cross-examined by Mr. Murphy: He did not know that Evans used the words "Great Welsh Remedy" in his advertisements. While he was preparing his label he did not look at Evans's. If the labels were alike it was a mere accident.

Mr. Richard Moore, traveller for a firm of bottle manufacturers, gave evidence that for years he had supplied the defendant with panel bottles. The bottles were not made specially for Mr. Davis; they were the ordinary 8-oz. bottle of commerce.

Evidence was given that advertisements appeared in Welsh papers of plaintiffs' bitters without the words "Great Welsh Remedy."

Mr. Robert Isaac Jones, chemist, carrying on business in Wales, said he had sold preparations as the "Great Welsh Remedy" for fifty years.

Mr. Smyley, Q.C., in submitting that the defendant's case was not an imitation of the plaintiffs' label, said he thought it a pity that plaintiffs did not go straight to defendant in respect to the matter, and complain to him instead of troubling the jury with regard to it. He asked them to look at the newspaper cuttings and labels, and to say whether they did not lead them to the conclusion that the injury complained of rested on the plaintiffs' name, and that that was what the customers looked to.

In summing up the case, his Lordship told the jury that the question for them to consider was whether defendant's preparation was made up in such a way that an ordinary person would mistake it for the preparation of the plaintiffs, who was entitled to the exclusive use of their label. It had often been said that patent medicines depended not so much on their actual merits as on the money spent in advertising them, and no doubt in this case the plaintiff had spent a large sum in bringing their bitters into favour, the advantage of which it would be unfair to be enjoyed by another. The point for them was, whether the defendant's was a colourable imitation of the plaintiffs' label likely to lead people astray or not: and upon their answer to that question their verdict would be based. Defendant had set up that the words, "The Great Welsh Remedy" had for years been used in connection with a pill, but he himself saw in that no sufficient excuse for his adoption on his bitters of words used by the plaintiffs on their preparation. True, the colour of the two labels and the price differed, but as against this it must be remembered defendant, who had sold plaintiffs' bitters, offered his own at a lower price. Then the place of preparation of the two bitters varied; but it was said that the address given on defendant's production was misleading, there being no such place known as the alleged "manufactory." Was this description used as a colourable imitation? Then there was the shape of the bottles to be considered as yet another ingredient in the case, and they also differed, in that the plaintiffs' contained an inscription, and the defendant's did not. Briefly, they had to decide whether there was a sufficient resemblance in the get up of the two bottles to mislead an ordinary person into believing the defendant's preparation was the plaintiffs'. The case was thus entirely one for the jury's decision.

After a brief consultation, the jury asked leave to retire.

On returning into court, the jury gave a verdict for the plaintiffs.

Mr. Justice Cave gave judgment for the plaintiffs for damages to be subsequently agreed, with costs, and granted the injunction prayed for.

The Pharmacy Act.—Sale of Poisonous Stamped Medicines.

At Brentford County Court, on April 14, the Pharmaceutical Society of Great Britain sued Messrs. Buckle & Barker, of 246 High Road, Chiswick, grocers, under section 15 of the Pharmacy Act, 1863, for selling a poison (chlorodyne) without being registered under the Act.

Mr. S. F. Grey appeared for the plaintiffs, and Mr. Beck for the defendants.

The evidence showed that William John Hobbs called at the defendants' premises "one day" in November, 1892, and purchased, amongst other articles, some chlorodyne, which was wrapped up in one of the defendants' wrappers. Cross-examined, Mr. Hobbs said that he did not state to the person who supplied him the purpose for which the article was required. He took several other samples the same day at Richmond, one of them being Powell's Balsam of Aniseed. On the following morning he wrote the defendants' names on the bottle, together with the number "20." He reported his purchase to the proper officer of the Society, who wrote to the defendants. The number 20 signified the number of the samples he had taken.

Mr. E. J. Eastes, analyst, who received the bottle, deposed that he opened it and left the wrapper with the first witness. He examined it, and found it a preparation of morphine. The wrapper was labelled "Poison."

Mr. Jex, the assistant overseer for Chiswick, produced the rate-book, which showed the defendants were occupiers of 246 High Road, Chiswick.

His Honour asked how the rate-book could be received as evidence.

Mr. Grey said that the Act provided for that, and there were general grounds on which it could be received. He also cited The Pharmaceutical Society *v.* the London Supply Association (L.R. 4 Q.B. page 316) to show that each partner must be fully qualified, and that it would not be enough for an unqualified master to have a qualified assistant.

Mr. Beck said he would admit that chlorodyne was a poison, but he would deny that that mixture was ever sold by the defendants. Seeing that the Society were taking quasi-criminal proceedings, the sale should be strictly proved, and as a matter of fact the defendant took care in October last, having heard of certain prosecutions, to withdraw from sale the whole of his stock of chlorodyne. The solicitors to the Society wrote to the defendants for penalties for selling poisons, but they charged them with selling Powell's Balsam of Aniseed, which showed how carelessly the samples must have been taken, or they would not have been mixed up. The defendants admitted selling

that mixture, but were prepared to meet any charge that that was a poison, if any such charge could be raised; but it was chlorodyne which was in question. It was evident that the Society's man got things mixed up, and that his evidence could not be relied on.

The defendant Barker testified that they never at any time sold the article except to order; and in October last the sale of it was withdrawn, and all bottles in stock returned to the wholesale people. Strict injunctions were given the shopmen never to sell chlorodyne.

Cross-examined: A few bottles remained in a room at the rear of the shop, and he had no qualified men in his employ. He believed two assistants knew where they were. He had two bottles in the store, and they were both sent back in February to the wholesale people. He received no notice from the Society in February.

His Honour thought the defendant hardly liable for any act of the servant done in contravention of express orders.

Mr. Grey said that the assistants had been in the habit of serving the article.

His Honour thought the orders of the defendant would be full instructions to the assistants.

Mr. Grey pointed out that the letter referred to was written in mistake, but it was a clear intimation to the defendants that they wrongfully sold poisons.

His Honour said that upon the facts the action must be dismissed. It was of a penal nature, and all the facts must be strictly regarded, and in reviewing them he pointed out a want of clearness on the part of the first witness as to how the bottle could be identified, or the date of the purchase verified. The plaintiffs made no disclosure of the mistake in the letter, as they should have done, until after the defendant's case was opened, and had they done so, he might have considered that Hobbs had not made a mistake. The sale of the article was withdrawn, and if an assistant had sold any in contravention of orders—although the point did not arise—it was probable the defendants would not have been liable. No intimation was given the defendants that they were to be prosecuted for that particular sale until March, and he was of opinion that the case had not been made out. Judgment for the defendants, with costs.

Warner's Safe Cure.

An action was brought in the Queen's Bench Division, on Tuesday, by Mr. Macpherson to recover arrears of salary alleged to be due for services rendered to Mr. H. H. Warner, and subsequently to Warner's Safe Cure Company. Mr. Bousfield, who appeared for the plaintiff, stated that he had been employed by the defendant as manager of his English and European business, on an agreement for five years at a salary of £8,000 for the first year, £9,000 for the second year, and £10,000 for the remainder of the term. This agreement was dated February 5, 1888. The business was converted into a company in November, 1889. The services of the plaintiff were retained with the company, and when the profits realised a sum of 117,000*l.* he was to receive an increased salary. Such profits were never realised, and it was subsequently arranged that the defendant should receive from the company 1,000*l.* a year, to be made up to the full amount when the profits were what was expected; and that if not, that Mr. Warner should be liable for the balance. It was under these circumstances that the present action was brought.—Evidence bearing out counsel's statement having been given, Mr. M'Coll submitted there was no case, that the subsequent agreement with the company put an end to the first agreement, and that plaintiff had no claim under the first agreement. Plaintiff was unable to rely on the first contract as existing, and he could not rely on the second contract as it was not in writing, and therefore could not be sued upon.

Mr. Baron Pollock considered that it was a very shabby transaction on the part of the defendant, but he must give judgment for the defendant with costs, on the ground that the second contract cancelled the first. Judgment accordingly, stay of execution being granted on the usual terms.

Mr. Charles Giddescombe, chemist and druggist, Willesden Park, has been elected a member of the Hendon Board of Guardians.

North British Branch.

A meeting of the executive of the North British Branch of the Pharmaceutical Society was held in the Society's House, Edinburgh, on Thursday. Mr. J. Laidlaw Ewing presided, and the following other members were present:—Messrs. Noble, Stephenson, Nesbit, Kermath, Kinninmont, Strachan, Sutherland, Kerr, and Fisher. The Assistant Secretary (Mr. Hill) read the minutes of the previous meeting (which were approved of) and intimated apologies for absence from Messrs. Jack, Arbroath; McAdam, Glasgow; Hardie, Dundee; Maben, Hawick; and Johnston and Paterson, Aberdeen.

An Examination Hall.

The first business was the consideration in private of the report of the General Purposes Committee with reference to the extension of the Society's premises by the addition of a hall for meetings and a laboratory.

The Chairman stated that the want of a hall such as was proposed had been much felt during the past winter in connection with their evening meetings, which had been so largely attended as to cause considerable discomfort. The new hall would be a great help towards the success of these meetings. Then, with regard to the examinations, it has been long recognised that more accommodation was wanted for examiners. When the plans before them were carried out the building would afford every facility for carrying on satisfactorily the work of the Society. The report of the committee on

Local Secretaries

was also considered in private. After consideration the report was, on the motion of Mr. Strachan, approved of, and a vote of thanks awarded to the committee.

The Chairman said that the committee had given the matter great consideration, and had divided Scotland into suitable districts, and he had no doubt that if the scheme were carried out it would tend to increase the efficiency and success of the Pharmaceutical Society.

The Assistant-Secretary read

The Annual Report to the Council,

which was approved of, and ordered to be transmitted to London. The next election of the executive was fixed to take place on June 1. The Chairman said that he had received a letter from Mr. Lawrence, Oban, asking consideration by that executive of the

Ginger-wine Essence Question.

Mr. Sutherland had been very active in this matter, and he would be pleased to hear anything that he had to say.

Mr. Sutherland said that he had taken up that question on account of the principle it involved. The Chemist and Druggist published a little while ago a formula for the preparation of ginger-wine essence, which contained spirit. He had made inquiries of the Inland Revenue authorities, sending them a sample of what was usually put up. The reply was that the sale of it would not be allowed if it contained spirit in the tinctures, but subsequently a question was put in the House of Commons, and it was then stated that they would be allowed 3 per cent. of spirit. What most pleased him was that up to that time chemists had been restricted from putting up such preparations, unless they had a compounder's licence. In Dumfries they were now making the essence by rubbing up gingerine and capsicine with glycerine instead of spirit, and they were selling as much as ever. The question for their consideration was whether it was advisable that they should submit to the interference of the Inland Revenue without some action being taken by the Executive. Unless some action were taken it seemed to him that their rights would be infringed.

Mr. Strachan said that Mr. Johnson had asked him to say that he had divided an essence into two parts—one containing 12·9 spirit, and the other 2·5, and had sent them to Somerset House and asked if he would be permitted to sell either or both; the reply was that he would be allowed to sell only the one containing 2·5 of alcohol. [? proof spirit, Ed.].

Mr. Fischer, referring to the suggestion that the Executive should take action, thought it would be better to go on as hitherto until someone was prosecuted.

Mr. Kinninmont, Mr. Kermath, and other members took the same view, and ultimately it was decided that Mr. Lawrence's letter should lie on the table.

The proceedings then terminated.

EXAMINATION EXPERIENCES.

The Major.

Perhaps the following may be of interest to student readers of The Chemist and Druggist. It is the practical portion of the Major examination which I have just passed in London. Four exercises were given me: (1) "Find out how much Fl_2O_3 you can get from 5 c.c. of liquor given." It was very strong, and on this account the examiner cautioned me not to take 5 c.c. I measured 5 c.c. of liquor, then mixed with 15 c.c. of water and took 5 c.c. of this dilute solution and estimated in usual manner. The weight found × 4 gave the weight obtainable from 5 c.c. of original.

(2) Mixture of salts, which consisted of iron (ous), chromium, magnesium, sodium, and sulphate and carbonate. This was much easier than some of the exercises given in your invaluable "Corner for Students," which latter I shall always recommend to students.

(3) Melting-point of beeswax, to take.

(4) Single substance, which was calcii hypophosp.

Others had estimation of ext. nuc. vom., estimation of nitrogen (combustion), estimation of phosphoric acid, purity of lupulin. A separation of white precipitate and subnitrate of bismuth was given to one.

The examination throughout was very fair, and gave every chance to the candidates.

The Minor.

The candidate was within sight of the honour in practical pharmacy, his first subject. A mixture containing potassium iodide, ammonium carbonate, and citrate of iron and quinine with water and (happily) some syrup had been satisfactorily compounded. So also a pill of potassium iodide and iodine, and one or two other articles not very difficult. There only remained unguentum citrinum to make, and the candidate asked Mr. John Fletcher, of Cheltenham, who was the examiner, how much he would make. "A small quantity," was the reply. Left alone the candidate proceeded to make an eighth of the Pharmacopœia quantity. Put the nitric acid and mercury together in the fume-chamber while he prepared lard and oil. Mr. Fletcher returned to ask, "How much are you making?"

"An eighth of the B.P. quantity."

"How much is that?"

"About 8 oz."

"Do you call that a small quantity?"

"I do."

"Humph!"

A few minutes later the examiner returns.

"What weights did you take?"

"So and so, so and so," &c.

"How much lard, did you say?"

"An oz. and 7 drachms."

"Troy or avoirdupois?"

Candidate hesitates and becomes very warm. At last he ventures, "Avoirdupois, but—"

"Ah! just let me see."

Candidate honestly produces his weights—one avoirdupois ounce and seven apothecaries' drachms.

"Oh, I can't pass this. It is wrong. You can't go on."

Candidate is left bewildered for a few moments, when the examiner returns to tell him:

"Put away that acid. There's no use stinking the whole place when you can't go on."

"Do you tell me, sir, that I can't proceed with the examination?"

"You are wrong with the quantity of lard you have taken. I can't pass it. Put away the stuff."

Which was done and the candidate left to begin the grind again.

This incident happened in 1893, at Galen Place, Bloomsbury.

MARRIAGE.

[*Notices of Marriages and Deaths are inserted free if sent with proper authentication.*]

Paul—Pattison.—On April 3, at Abbey Foregate Congregational Church, Shrewsbury, by the Rev. T. Townsend, Mr. James Paul, of Chiswick, London, to Florence Amelia, eldest daughter of Mr. H. Pattison, chemist, Shrewsbury.

DEATHS.

Buck.—On April 9, Thomas Buck, chemist and druggist, London. Aged 84.

Dick.—Dundas Dick, one of the best-known personages in the American drug-trade, died on April 1, on his 55th birthday. Mr. Dick was born in Edinburgh, and obtained his early education in Heriot's Hospital. At the age of 14 he was apprenticed to a pharmacist in his native town. His apprenticeship ended, he went to Glasgow as a chemist's assistant. There he learned the art of making gelatine capsules, and when he went to New York, in 1864, he was one of the first, if not the first, to introduce gelatine capsules there. Six years ago Mr. Dick was stricken with a disease which developed into paresis. Mr. Dick was a bachelor, and had no near relatives in America.

Lyon.—On Tuesday, April 11, at 3 Hardwicke Place, Dublin, Henry M. Lyon, chemist and druggist, of 19 Great Denmark Street. Aged 50.

Macnamara.—On April 12, at 95 Stephen's Green, Rawdon Macnamara, Senior Professor and Member of Council, R.C.S.I. Aged 72. Professor Macnamara was a member of the first Council of the Pharmaceutical Society of Ireland.

Minett.—On March 14, T. S. Minett, chemist and druggist, West Kensington.

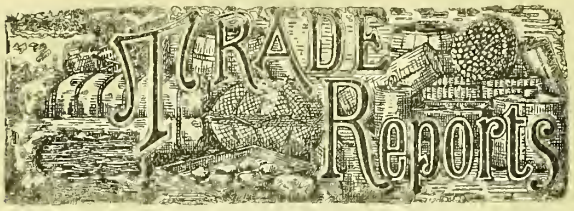
PHARMACY AND POISON LAWS OF THE UNITED KINGDOM.

An invaluable desk-companion for all chemists and druggists, and a requisite text-book for those preparing for the Minor examination. Published at the offices of The Chemist and Druggist, price 2*s.* 6*d.*; by post, 2*s.* 9*d.* Stocked by most wholesale druggists, from whom it may be obtained at the published price.

If the poison and pharmacy laws of this country were free from inconsistency they would be grossly un-English. It seems almost farcical to hedge in the sale of "poisons" with complicated formalities, whilst the open sale of explosives, ammunition, and firearms is allowed to go on. This is the greater grievance, since the lawful and harmless uses of firearms are very limited, whilst the lawful and harmless uses of poisons in the arts and manufactures are almost innumerable. We know that there are persons who seek for an extension of the present laws, and would even restrict the sale of the ordinary mineral acids to the chemists and druggists. Several attempts have been, in fact, made in this direction, but fortunately for the arts they have not been successful. The Council of the Pharmaceutical Society, in 1882, made itself responsible for an attempt of this nature. The work before us, it will be seen, is simply historical and declaratory. It neither criticises nor justifies the existing laws, nor does it advocate their alteration. It will be very useful to all dealers in chemicals as explaining to them in clear language what articles they may sell and under what regulations.—*Chemical News.*

This publication deals very fully with the laws governing pharmacy, and the sale of poisons in the United Kingdom. The parliamentary discussions which preceded the passing of the Pharmacy Acts of 1853 and 1868 are given in full, as well as a record of the interpretations of the statutes which have been arrived at in courts and by other means, including the important action of the Pharmaceutical Society *v.* London and Provincial Supply Association, which was eventually carried to the House of Lords. Particulars of the Pharmacy Laws of the Australian Colonies, Canada, and Cape Colony are given in the appendix. Without doubt, this book is the most complete work dealing with this subject, and will be found most useful as a reference.—*Provincial Medical Journal.*

Though intended primarily for students preparing for the examinations of the Pharmaceutical Society, "Pharmacy and the Poison Laws" (London: Office of The Chemist and Druggist, 8vo, pp. 220) will be of use and interest to medical men, magistrates, and others who frequently have matters brought before them requiring a knowledge of the subject here treated of.—*Manchester Guardian.*



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

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42 CANNON STREET, E.C., *April* 20.

Advances upon Cinchona in Holland.

The manager of the Netherlands Bank in Amsterdam has agreed to include cinchona-bark among the articles upon which the bank is prepared to advance money. The value of the bark upon which a loan is asked is to be estimated by the bank's broker upon the basis of a double analysis of two specified chemists. Only barks equalling a minimum of 3 per cent. of sulphate of quinine are admissible for advance, and the sum lent upon them shall not exceed 60 per cent. of the value.

The Zanzibar Export Duties on Spices.

In 1892 the export duty on cloves in Zanzibar yielded a revenue of 450,237 rupees. For the present year it is expected to bring into the treasury 525,000 rupees, or over 72 per cent. of the total revenues of the country. The receipts from export duty upon chillies for the current year are estimated at 12,000 rupees, those derived from the clove-stem duty at 5,000 rupees.

Mixed Jalap.

A somewhat suspicious looking parcel of jalap was exposed for sale recently. It comprised both Tampico and Vera Cruz tuber, partly whole, partly sliced, some light and porous, and some good heavy root. Much of the jalap was of small size. Such parcels are by no means rare, and it is probable that the decided fall in the resin value of jalap, which has been noticed of recent years, may simply be due to too early harvesting. Some have the suspicion, not unreasonable in the circumstances, that the tubers which are sliced have been treated with spirit for the partial extraction of resin. We have thought it of sufficient interest to analyse the parcel referred to, to see whether this suspicion is well-founded or not. A Vera Cruz tuber, weighing about 1½ oz., was selected. It was sliced at the sides, and felt rather light. It yielded 8·5 per cent. of resin, *i.e.* 1·5 per cent. below the Pharmacopœia standard, but still not the lowest percentage which has been noted in genuine jalap. A second fair average sample of the Tampico sort yielded us 10·5 per cent. of resin. These two varieties of jalap are not alike in composition, although they are generally accepted as medicinally identical, and with that reservation the parcel may be considered satisfactory, although to the eye it was anything but that.

Acid (Carbolic).—Steady. *Liquid* 95 to 98-per-cent. is still held for 2*s.* per lb. *Crystals* may be quoted at 6½*d.* per lb. for 34° to 35°, and 7½*d.* per lb. for 39° to 40°.

Aloes.—On Friday last, the second day of the drug-auctions, 27 gourds *Curaçao* aloes sold at 20*s.* to 23*s.* for ordinary to fair brown mixed capey. The stock of this variety of aloes is now very small, and unless fresh shipments take place, which appears unlikely for the present, prices may probably advance.

Balsam Peru remains very scarce indeed. Owners ask nominally 6*s.* per lb., though they might possibly accept a trifle less.

Benzoin.—The Amsterdam market is reported almost bare of stock, while the demand is fairly good.

Buchu.—On Friday this drug experienced a further slight decline, 61 bales being mostly disposed of at 3¾*d.* to 4½*d.* per lb. for fair to good bright green, round leaves. The drug is still arriving. The *Pembroke Castle* brought 60, and the *Spartan* 4 bales from Cape Town.

Camphor (Crude).—Sales of *Japan* camphor for February shipment were reported at the end of last week at 152*s.* 6*d.* per cwt., c.i.f. terms.

Canary-seed.—A parcel of 100 bags Turkish seed brought 64*s.* at the spice auctions, the sale being "without reserve." The stocks are not very large, notwithstanding which there are weak holders.

Cascarilla.—A parcel of 29 bales just imported from New York sold at from 19*s.* 6*d.* to 23*s.* 6*d.* per cwt. at auction.

Castorum.—The Hudson's Bay Company offered a new arrival of 350 lbs. for sale by auction on Wednesday. The whole of it sold with strong competition at extraordinary prices—firsts, 114*s.* per lb.; seconds, 100*s.*; thirds, 92*s.*; pickings, 86*s.*; oil-bags, scraps, and refuse, 11*s.* per lb.

Chamomiles.—The market is steady, but without much life. For fair to fine Belgian flowers from 65*s.* to 72*s.* per cwt. is asked.

Cinchona.—At the auctions on Tuesday (the first which have taken place since March 21) a moderate quantity of bark was put up for sale, the catalogues offering of the following quantities:—

	Packages		Packages	
Ceylon bark	891	of which	730	were sold
East Indian bark	986	„	846	„
Java bark	143	„	143	„
West African bark	321	„	97	„
South American bark.. ..	320	„	320	„
	2,661		2,136	

The assortment of bark shown was of a particularly inferior character, very ordinary *Succirubras* forming the bulk of it. There were several heavy parcels (about 300 bales in all) of common Ceylon bark imported in 1886 and 1887; part of this sold at very unsatisfactory prices, but about 130 bales were bought in, only ¼*d.* per lb. being offered for them. A few lots of *Cuprea* bark imported in 1881 now sold at 1*d.* per lb. The tone throughout the sales was fairly steady, and the unit may be placed at the same figure as that of the preceding auctions—viz., 1*d.* per lb. The following are the approximate quantities purchased by the principal buyers:—

	Lbs.
Agents for the Mannheim and Amsterdam works	116,273
„ Brunswick works	68,990
„ American and Italian works	60,301
„ Frankfort o/M. and Stuttgart works ..	35,969
Messrs. Howards & Sons	33,300
Agents for the Auerbach works	28,594
„ Paris works	12,677
Mr. Thos. Whiffen	10,479
Sundry druggists	99,649
Total amount of bark sold	466,232
Bought in or withdrawn	128,687
Total amount of bark offered	594,919

It should be remembered that the weight of bark purchased is no criterion as to the quantity of quinine acquired by the buyer.

The following prices were paid for sound bark:—

Ceylon Cinchona.—*Original*—Red varieties: Ordinary woody to good bright quilly stem and branch chips. 1½*d.* to 2½*d.*; good bright shavings, 2½*d.* to 3*d.*; low dusty dark chips of old import, ½*d.* to ¾*d.*; dusty root, 1¾*d.* per lb. Grey varieties: Dust, ½*d.*; low dusty branch chips of old import, ½*d.* to ¾*d.*; common woody to medium stem and branch chips, 1¼*d.* to 3¼*d.*; dull shavings. 2½*d.* to 3*d.* per lb. Yellow varieties: Low woody chips, 1½*d.* to 2*d.*; chips and root mixed, 2¼*d.*; fair shavings, 5*d.* per lb. Hybrid root, 2½*d.*;

ordinary dull chips, 1½*d.* to 2¼*d.* per lb. *Renewed*—Dull red stem chips, 1¾*d.* to 2½*d.*; ordinary grey stem chips, 2*d.* to 2⅝*d.* per lb. Hybrid shavings, 2½*d.*; chips, 3¼*d.* per lb.

East Indian Cinchona.—*Original*—Red varieties: Low dusty and woody to good bright quilly stem and branch chips, 1¾*d.* to 4*d.*; common to fine bright spoke-shavings, 1½*d.* to 4¼*d.* per lb. Grey varieties: Ordinary dull to fair quilly chips, 1½*d.* to 3*d.*; low dusty to fair root, 1¾*d.* to 4*d.* per lb. Yellow varieties: Common woody to good quilly stem and branch chips, 1½*d.* to 5½*d.*; a few fine lots, 5¾*d.* to 6*d.*; low dusty to fair shavings, 1½*d.* to 3¾*d.*; root, 2¾*d.* per lb. Hybrid dull woody and dusty chips, 1¾*d.* to 2*d.*; fair ditto, 2¾*d.*; common to fair spokeshavings, 1½*d.* to 2¼*d.* per lb. *Renewed*—Red: Ordinary dull to fair bright quilly chips, 2¼*d.* to 2½*d.*; spokeshavings, 1½*d.* to 3*d.* per lb. Grey: Fair quilly chips, 4¼*d.* to 4¾*d.* per lb. Yellow: Ordinary chips, 3*d.*; low to good bright quilly spokeshavings, 2*d.* to 5½*d.* per lb. Hybrid chips, 2½*d.*; shavings, 1¼*d.* to 2*d.* per lb.

Java Cinchona.—A new arrival of 143 bags, by direct import, sold at 3*d.* to 4*d.* for fair yellow chips.

African Cinchona.—Three hundred and twenty bales of West African bark, *Succirubra* character, in thin to medium partly broken quill, sold at 2½*d.* to 3½*d.* per lb. for sound, and from 2¼*d.* to 3*d.* per lb. for damaged quality.

South American Bark.—Cultivated Bolivian *Calisaya* bark was represented at the auctions by only 71 packages, of which 54 sold at 5½*d.* to 5¾*d.* per lb. for fair sound stout and thin mixed, partly silvery bark, and at 4¾*d.* to 5¾*d.* for damaged ditto. A parcel of 23 serons *Soft Colombian* bark, very dusty, imported in 1881, brought 1½*d.* per lb. for sound, and 1¼*d.* to 1½*d.* per lb. for damaged. There were also 227 bales *Cuprea*, imported in 1881, of which 20 now sold at 1*d.* per lb., the remainder being bought in, as the purchaser would not go on at that price.

The exports of cinchona from Java during the eight months between July 1 and the end of February of the last five years have been as follows:—

—	1892-93	1891-92	1890-91	1889-90	1888-89
	Amsterdam lbs.	Amsterdam lbs.	Amsterdam lbs.	Amsterdam lbs.	Amsterdam lbs.
Private plantations	4,695,397	5,463,815	4,838,965	3,012,630	2,244,870
Government plantations	473,714	493,184	404,645	394,780	529,110
Totals ..	5,169,111	5,956,999	5,243,610	3,407,410	2,773,980

The exports of cinchona from Ceylon between January 3 and February 27 have been:—

	1893	1892	1891	1890
Cwts.	1,152,953	1,193,498	1,324,966	7,674,324

Civet.—Still very scarce and inquired for. It is reported that some sales have lately been made at 11*s.* per oz.

Cloves.—On Wednesday 392 bales *Zanzibar* cloves were offered, of which 100 sold at a decided decline—viz., 3¾*d.* per lb. for fair quality. It should be said that they were forced off without reserve. For delivery the market is also flat and lower, with very little business; 500 bales June-August sold at 4*d.* per lb. Of *Clove-stems* 222 bales sold "without reserve" at ¾*d.* to ⅞*d.* per lb. At the close of our report 1,000 bales sold at 3⅞*d.* per lb. for June-August.

Cocaine is steady. German *Hydrochlorate* is quoted at 18*s.* to 18*s.* 6*d.* per oz.

Copper (Sulphate).—Very firm and scarce, the price in London ranges from 15*l.* 10*s.* to 16*l.* 10*s.* per ton according to brand.

Cotton Seeds.—A parcel of fifteen 1 cwt. bags of fair seeds fetched 28*s.* per cwt. at auction.

Cubebs.—Of 13 packages offered last Friday, 3 cases, dull mouldy berries, slightly mixed with stalks, from Bombay, sold, subject to approval, at 65*s.* per cwt. The exports from Java during the 8 months between July 1 and the end of February, have been as follows:—1891-92, 1,837 piculs; 1890-91, 1,172 piculs; 1889-90, 604 piculs; 1888-9, 539 piculs; 1887-8, 174 piculs. There have been no arrivals in Holland for some weeks now, nor is anything known of shipments being on the way. The market is very flat nevertheless, and business remains exceedingly restricted.

Ginger.—*Cochin* ginger is quiet and lower. At auction 250 bags good bright washed of the new crop sold at 64*s.* to 64*s.* 6*d.*; bold old crop, A cut, brought 80*s.* to 81*s.* 6*d.* per cwt. *Jamaica* ginger is higher, both for old and for new crop root. Twenty-six barrels of the latter brought 63*s.* to 89*s.* per cwt. for common to good Rhatoon. Fine selected ditto sold at 100*s.* per cwt. Of old crop dull low to good bright medium sold at 64*s.* to 77*s.* per cwt. *African* ginger is arriving in Liverpool in considerable quantities, and sales are being made at lower rates; 39*s.* per cwt. is the last price reported. From Calcutta we hear, under date of March 29, that small sales of new crop ginger have been made for local requirements; the arrivals are as yet small, but may probably increase before long.

Glycerine.—The price is slightly firmer, and the makers' agents mostly talk of 50*s.* per cwt. as the price for double-distilled s.g. 1·260. But it is possible to buy below that from second hands.

Gum Acacia.—The importation of Senegambian gums at Bordeaux during 1892 amounted to 41,546 bags (about 3,500,000 kilos.), or about one-eighth less than in 1891. Considerable difficulty was experienced in Senegal in getting in the crop, owing to a very rainy season. The market for *Soudan sorts* is tending easier, and small sales have recently been made at 60*s.* to 67*s.* 6*d.* per cwt. for dull reddish to fair sorts. *Gehzirah* and *Talca* gums are not in stock at present.

Gum Myrrh.—At the auction on Friday last, 40 packages sold partly "without reserve," at rather higher prices, ranging from 50*s.* per cwt. for good pickings to 90*s.* per cwt. for good palish sorts. Closely following upon the recent advance there has been an arrival of 78 casks from Aden.

Honey.—The new crop of *Chilian* honey continues to arrive in Liverpool.

Insect Flowers.—Much higher prices are reported from Triéste this week. The stock at that port is now only 115 tons, against an average supply of 350 tons at least, and if the crop proves as small as is anticipated, a rapid rise is looked for. The present quotations run as follows:—Closed flowers, 68*s.* 6*d.* to 72*s.* c.i.f.; half-open flowers, 57*s.* 6*d.* to 64*s.* c.i.f.; open flowers, 50*s.* to 53*s.* 6*d.* c.i.f.

Ipecacuanha.—On the second drug sale day 52 bales *Brazilian* and 7 packages *Cartagena* root were offered, but only 9 bales of the former sold at 6*s.* to 6*s.* 6*d.* per lb. for thin to fair partly annulated sound, and 6*s.* to 6*s.* 2*d.* per lb. for damaged root. Small sales of *Cartagena* root, first-class damaged, at 4*s.* 9*d.* and sound at 5*s.* per lb. have taken place privately since the auctions.

Jalap.—There has been an arrival of 23 bales from Havre. Market flat and tending lower.

Oil (Castor).—From Calcutta it is reported that the output of castor oil remains small and the stock light. Prices keep very firm in consequence. The prices of seed are advancing owing to the scantiness of the supply.

Oil (Cod-liver).—Higher. There have been sales this week of fine new non-freezing Norwegian at 60*s.* per barrel, which shows an advance of about 4*s.* to 5*s.*

Oils (Essential).—There has been a fresh advance in some brands of *otto of rose*; one importer put up his price 2*s.* per oz. a few days ago. At the auctions last Friday *Cajuput* oil sold at 2*s.* 2*d.* per bottle, and native oil of *Citronella* at ⅝*d.* per oz. Advices from Italy say that oil of lemon has at last taken a turn towards higher prices; holders are not anxious to sell at the rates they quoted lately, and it is said that there has been a pretty fair demand from America. The price for good to fine *Oil of lemon* is now from 6*s.* to 7*s.* 6*d.* per lb. f.o.b. *Bergamot* unchanged. *Indian geranium* said to be in demand at from 6*d.* to 8*d.* per oz. for fair to fine quality. *Lemongrass oil* is very scarce, and has been sold privately at 2*d.* per oz. *Oil of cassia* is dearer, none being now offering below 3*s.* 5*d.* per lb. *Star-anise oil* flat at 5*s.* 7*d.* per lb. on the spot.

Oil (Eucalyptus).—Four cases from Tasmania (each case of 2 39-lb. tins) sold at 8½*d.* per lb. on Friday last.

Opium.—There is very little offering in London, most holders of Turkish opium preferring to keep their supplies off the market at the present time. In *Persian* opium a good deal of business has been done at prices ranging up to 11*s.* 6*d.* per lb. for good quality. There is not now anything offering below that figure. Our advices from Constantinople are dated April 15. They are as follows: "Prices at the beginning of the present month drooped to the parity of 10*s.* 2*d.* f.o.b., a few cases being sold at about this figure. Since then a reaction has set in, and 12*s.* to 12*s.* 3*d.* has been paid for about 350 cases for American account. The market closes firm at this parity. If the Smyrna market remains quiet a slight decline is probable here. So long as the probable output of the new crop remains uncertain, values will probably play about between 11*s.* and 12*s.* Smyrna estimates the 1893 crop at anything between 1,500 and 3,500 cases. We consider that about 3,500 cases would be a more or less correct estimate."

Prussiate of Potash.—There has been quite a breakdown in the market for this article, the price of British yellow prussiate having been reduced to 8½*d.* per lb. by the makers.

Quicksilver.—First hands still quote at 6*l.* 15*s.*; seconds at 6*l.* 11*s.* 6*d.* per bottle.

Quinine.—At the end of last week further sales of second-hand German quinine on the spot were reported at 9¾*d.* per lb. There has been a steady business this week at practically unaltered rates. On Monday 5,000 oz. German bulk were reported to have sold at 10*d.* per oz. for June–August delivery. Transactions of 27,000 oz. at 9⅞*d.* for June have since been concluded. There are sellers at 9¾*d.* and buyers at 9⅝*d.* per lb. on the spot.

Santonine.—The market appears to be slightly easier, and we hear that there are sellers at 6*s.* to 6*s.* 6*d.* per lb. now according to quantity. Certain sellers for delivery appear lately to have had some difficulty in executing their contracts within the time, but at present the supply seems to flow more freely once more. *Worm-seed* is still very high, good green 31*s.* 6*d.* per cwt., c.i.f. terms.

Shellac.—Last week the market closed quietly with small sales of *Orange* TN, for September delivery at 98*s.* 6*d.* per cwt. Early this week a small quantity of fine orange lac (VSO) sold at 109*s.* per cwt. on the spot. At auction on Tuesday 756 cases were offered, of which 322 sold at firm prices for common *Button lac*, but slightly lower for *Second orange*. The following were the quotations:—*Orange lac*, unworked, fine pale flat seconds, 107*s.* 6*d.*; dull pale to good bright curly, 94*s.* to 97*s.*; fair reddish worked, 97*s.* per cwt. *Button lac*, unworked fair to fine pale firsts, 102*s.* 6*d.* to 125*s.*; seconds, 98*s.* to 100*s.*; thirds, 89*s.*; common fourths, 79*s.* to 82*s.* per cwt. *Garnet lac*, unworked O.C.C., 93*s.* to 94*s.* per cwt. Since the auctions the market has remained very quiet though steady, with a slow demand. Orange TN for May delivery has been sold at 97*s.*; June and July at 93*s.*; and September at 98*s.* 6*d.* down to 98*s.* per cwt.

Spices (Various).—*Mace* is slow of sale, ordinary red to bold pale Penang selling at 1*s.* 8*d.* to 1*s.* 11*d.*, West Indian at 1*s.* 9*d.* to 2*s.* per lb. *Nutmegs* are steady, but were in moderate supply at this week's auctions. *Pimento* sluggish, at 3*d.* to 3½*d.* per lb. for grey to good quality. Good bright to fine red Ceylon *Capsicums* sold at 22*s.* 6*d.* to 30*s.* per cwt. Fine bold white Singapore *Pepper* sold at 6*d.* per lb. at auction, but generally the article is very dull. *Black pepper* is flat and again easier for some kinds, dull grey Tellicherry selling at 2¾*d.* to 2⅞*d.* per lb. St. Vincent *Arrowroot* is in very large supply, and ⅛*d.* lower to sell.

Star-anise.—The China market, says a Hong Kong report, dated March 15, is apparently overstocked, notwithstanding that very heavy shipments have been made from China during the last few months.

Tamarinds.—About 200 packages of new crop Barbados fruit were offered on Wednesday and sold at easy prices; ordinary to good, at 14*s.* 6*d.* to 16*s.* per cwt.

Tea.—The market keeps very firm for all kinds, and there has been a fair trade doing all round. Retailers and country buyers generally have evidently not very much tea, and are a little anxious to replenish their stocks in view of the tendency of prices to harden. A fairly heavy Indian sale on Monday went off very well for all lower grades, though better teas from 10*d.* to 1*s.* 1*d.* were not in so strong demand, and a few good liquoring teas in the sale were worth attention. Anything very fine with character and quality is much wanted, however, and was run up to very high prices. Tuesday's Ceylon sale was not quite so large as that of the previous week, and went off at about last week's prices. Teas under 8*d.* are so notably cheaper than Assams that they are well competed for, though they cannot be quoted dearer. A few really fine teas in the sale fetched full rates.

Turmeric.—A considerable quantity was offered for sale on Tuesday, but only a small proportion found buyers; good bright bold *Madras* finger at 27*s.* 6*d.*, *Cochin* bulbs 9*s.* 6*d.*, dull *China* finger 7*s.* per cwt.

Valerian.—The supplies of fine *Belgian* valerian root are almost exhausted. The last sales, we are told, were at the rate of 38*s.* per cwt., and the agents who sold at that figure have nothing more to offer. *French* valerian may still be had at 32*s.* 6*d.* per cwt.

THE LIVERPOOL MARKET.

Arsenic.—Holders now ask more money—14*l.* to 14*l.* 5*s.*

Chillies.—Sierra Leone are again lower, 150 bags bright red only realising 30*s.* per cwt.

Coca-leaves.—A parcel of dark *Huanaco*—part damaged—offered at auction, but found no buyers.

Ginger (African).—The fall has continued, and during the week 40*s.* has been taken for good sound root.

Gum Acacia.—Values are steady, notwithstanding late arrivals, and 60*s.* for hard amber to 75*s.* for soft white to hard amber is asked. *Niger* gum continues to sell steadily at late rates.

Oil (Castor).—The *Mira*, with 2,800 cases, has arrived, but holders show little or no weakness. A few lots at 2⅜*d.* have been cleared from the quay and value now 2 7/16*d.* to 2,*d.* again.

Quillaia.—In consequence of arrivals there is an easier feeling, and 17*l.* 10*s.* to 17*l.* 15*s.* is now value.

Wax (Bees').—Sales of new crop *Chilian* have been made at 7*l.* to 7*l.* 5*s.*

THE NEW YORK MARKET.

(*Telegram from our Correspondent.*)

New York, Wednesday Night.

All varieties of *balsam copaiba* have declined in value here. *Jalap* is also lower in consequence of the recent heavy arrivals. There has been a decline in the value of natural oil of *wintergreen* and of oil of *sassafras*.

THE AMSTERDAM MARKET.

Amsterdam, April 14.

All the analyses for the cinchona-bark sales to be held here on April 27 have been published. The manufacturing bark contains 17 tons sulphate of quinine, or 4·43 per cent. on the average. About 14 tons contain 1–2 per cent.; 50 tons 2–3 per cent.; 105 tons, 3–4 per cent.; 113 tons, 4-5 per cent.; 24 tons, 5–6 per cent.; 38 tons, 6–7 per cent.; 33 tons, 7–8 per cent.; 2 tons, 9–10 per cent.; and 1 ton contains 11–12 per cent. sulphate of quinine.

Great Fire in the American Turpentine Districts.—The greatest forest fire ever known in Moore and Richmond counties, North Carolina, broke out a fortnight ago in the heart of the long-leaf pine district. Thousands of trees are destroyed, and many persons owning turpentine-groves are ruined. One man lost 2,000 acres of trees. The fire swept upon the town of West End and nearly destroyed it. At least twelve turpentine distilleries and scores of dwellings scattered throughout the woods were burnt, and the rails of the Aberdeen and West End Railway were so badly warped that trains cannot run. Great quantities of rosin were burned, 1,000 barrels being destroyed at West End alone.

LONDON DRUG STATISTICS.

The following figures refer to the stock of drugs in the London warehouses on March 31, and to the imports and deliveries during the first quarter of 1893 and 1892 respectively:—

Article	Stocks		Imported		Delivered	
	1893	1892	1893	1892	1893	1892
Aloes ....cs & pkgs	5,718	6,930	756	967	841	1,139
„ .....gourds	813	1,095	198	—	186	10
Anise, star ....chts	768	142	691	110	162	10
Arrowroot.....cks	6,933	3,483	6,158	4,816	4,507	4,261
„ bxs & tins	599	389	462	441	296	1,005
Balsams....cks, &c.	1,350	1,542	175	420	194	433
Bark (Cinchona), S. American cases	72	378	16	22	—	16
„ bls, &c.	23,171	25,939	2,692	3,534	2,479	4,086
E. I., Ceylon, and Java .....cs	143	187	32	18	32	79
„ bls.	18,566	20,173	12,971	9,930	10,143	11,769
Borax .....pkgs	25	261	20	—	256	—
Calumba..... „	256	587	262	78	506	138
Camphor .... „	3,922	4,556	3,664	2,475	2,469	2,246
Cardamoms ....chts	712	601	716	647	557	489
Cocc. Ind. bgs, &c.	590	403	—	25	97	112
Cream of tartar cks	10	11	2	1	3	—
Cubebs .....bgs	308	89	225	67	236	72
Dragon's Blood chts	99	104	11	66	31	61
Galls, China, &c. cs	1,124	2,126	1,000	1,321	406	824
Trky & Prsn..sks	1,852	2,010	681	799	1,066	1,082
Gums—						
Ammoniacum pkgs	137	95	4	88	13	57
Animi & Copal pkgs	9,518	9,001	4,674	7,647	4,280	4,633
Acacia..... „	11,881	16,118	5,147	4,906	5,388	6,158
Asafœtida .. „	55	405	283	73	312	188
Benzoin .... „	2,269	2,620	942	629	777	1,037
Damar..... „	3,934	4,458	1,475	1,206	1,121	1,008
Galbanum .. „	31	31	—	—	—	5
Gamboge .. „	81	58	30	77	106	54
Guaiacum .. „	195	184	38	79	38	22
Kino ..... „	2	3	2	10	2	14
Kowrie .....tns	743	836	389	675	637	878
Mastic .....pkgs	22	26	15	—	14	5
Myrrh ..... „	289	257	154	27	89	130
Olibanum .. „	3,236	4,943	2,367	2,878	1,461	2,138
Sandarac .. „	707	841	143	708	385	301
Tragacanth „	833	3,266	1,049	1,945	1,014	2,366
Guttapercha....tns	2,807	2,665	359	634	194	570
*Indiarubber,E.I.tns	82	228	96	121	171	172
Madagascar „	143	79	144	86	124	120
S. American „	26	49	58	56	81	63
African, &c. „	122	163	50	86	123	157
Ipecac....cks & bgs	647	326	344	368	408	457
Jalap .....bls	82	42	94	65	68	60
Lac Dye .....chts	4,885	4,955	—	—	2	15
Myrobolans ....tns	4,333	1,041	1,008	914	1,487	1,639
Nux Vomica ..pkgs	667	766	256	483	194	182
Oils—						
Castor.....cks	67	136	109	185	177	124
„ .....cs	1,722	3,129	1,009	1,460	987	1,727
Cocoa-nut ....tns	1,123	1,308	1,129	322	779	1,233
Olive ....cks, &c.	888	682	781	485	410	578
Palm .....tns	4	33	6	28	11	15
Rhubarb .....chts	731	255	126	204	402	356
Safflower ..bls, &c.	48	151	11	1	25	71
Sarsaparilla ....bls	252	318	178	276	391	291
Senna ....bls, &c.	1,895	2,400	1,472	478	1,118	954
Shellac Orange chts, &c.	20,570	29,662	6,835	9,912	6,559	7,111
Garnet .. „	3,625	5,392	2,146	5,684	2,385	2,125
Button .. „	2,467	5,956	1,518	1,496	2,477	2,027
Total chts, &c.	26,662	41,090	10,499	17,092	11,421	11,263
Sticklac ..chts, &c.	739	195	1,177	—	628	157
Gambier .....tns	374	1,764	2,921	3,425	3,054	3,156
Cutch..... „	2,112	2,813	700	1,091	787	650
Turmeric, Beng. tns	72	347	69	5	58	105
Madras, &c. .. „	165	282	119	220	118	59
Total	237	629	188	225	177	164
Vermilion, chts, &c.	97	46	30	41	1	21
Wax (bees') ..brls & srns	328	934	103	794	712	712
„ cks & cs	1,346	927	445	431	669	464
„ cakes	42	14	—	—	—	—
„ (Japan) ..pkgs	1,125	898	850	400	150	126

*Stock of Pará rubber at Liverpool, 555 tons; other sorts, 733 tons—total, 1,288 tons, against 2,243 tons last year and 1,362 tons in 1891.

ASKERN MINERAL-WATERS.

In a paper communicated to the Chemical Society by Mr. C. H. Bothamley, of Leeds, it is stated that although the mineral-waters of Askern have a well-established reputation in the treatment of chronic rheumatism and of skin diseases, no analyses of them have been made since those of Lankester and West in or about the year 1840.

There are at present four wells or springs in the peat common on the edge of which the village of Askern stands, and to each of these is attached a pump-room and a suite of baths. The author has examined samples of the waters collected at intervals extending over a period of nearly two years. They are surface or shallow spring-waters, and are mainly solutions of calcium and magnesium carbonates and sulphates, containing a large quantity of dissolved peaty-matter and a considerable amount of hydrogen sulphide; minute traces of iodine and lithium, but neither bromine nor potassium, were detected. The approximate composition of the four waters, in grammes per litre, is as follows:—

—	Mother Close Well	Terrace Baths	Charity Baths	Manor Baths
Calcium carbonate	0·8417	0·8232	0·6825	0·6693
„ silicate	0·0281	0·0262	0·0443	0·0449
„ sulphate	0·5222	0·4434	0·4938	0·5151
Magnesium sulphate	0·3874	0·4288	0·7184	0·6834
Sodium chloride	0·0346	0·0989	0·1190	0·1205
„ sulphate	0·0426	0·0220	0·0659	0·0599
Total	1·8566	1·8425	2·1239	2·0936
Hydrogen sulphid	56·7 c.c.	49·5 c.c.	34·8 c.c.	37·3 c.c.

The production of the sulphuretted hydrogen is probably due to the action of an organism, although hitherto the author has failed in isolating one.

In another note, dealing with "The Distribution of Acidic and Alkalinic Radicles in a Solution containing Calcium, Magnesium Carbonates and Sulphates," Mr. Bothamley states that, in examining these waters, it was found that the precipitate formed, when the "free" carbon dioxide was expelled, was almost pure calcium carbonate, and contained the merest trace of magnesium, although this element was present in considerable quantity. Direct experiments showed that an excess of well-washed precipitated magnesium carbonate completely precipitated calcium from a solution of calcium sulphate in the absence of "free" carbon dioxide, and that there was practically no reverse action when a solution of magnesium sulphate was placed in contact with a large excess of precipitated calcium carbonate. When solutions of calcium carbonate and magnesium sulphate were mixed together, and the "free" carbon dioxide expelled by the action of heat or by the passage of a current of hydrogen, the precipitate contained only a mere trace of magnesium. The same result was obtained when a solution of magnesium carbonate was mixed with a solution of calcium sulphate, and the "free" carbon dioxide expelled by a current of hydrogen.

Mr. Bothamley concludes that the sulphuric radicle must be regarded as combining by preference with magnesium, and not with calcium, as is generally supposed. In the case of the Askern waters, this view is supported by their therapeutic action.

A Cheese for Chicago.—The Canadian Government have already sold to Mr. T. J. Lipton, the well-known tea and provision merchant, the mammoth cheese which has been manufactured as Canada's special exhibit for the World's Fair. The cheese is the largest the world has ever seen, and weighs close on 12 tons, or about 26,880 lbs. This marvel of the dairy was made from the milk of 20,150 cows, and milked by 2,177 dairy-maids, the milk weighing about 250,885 lbs.—equivalent to over 112 tons, or fully 29,554 gallons.

Correspondence

Memoranda for Correspondents.

In letters for publication correspondents are requested to express their views as concisely as possible.

Correspondents should write on one side of the paper only, and devote a separate piece of paper to each subject of inquiry.

The name and address of the writer should accompany all communications with, if desired, a distinctive nom-de-plume.

Branch Shop Managers.

A northern chemist (20/23) sends us an agreement made between himself and an assistant as far back as 1869, stamped with a 6*d.* agreement stamp. The agreement runs as follows:—

Agreement made and entered into this third day of March, 1869, between Robert Blank, of in the county of chemist and druggist, of the one part, and Thomas Shopman of chemist's assistant, of the other part.

1. The said Robert Blank hereby agrees to take the said Thomas Shopman as his assistant for the managing, superintending, and conducting the trade or business of a chemist and druggist, as carried on by him at upon the terms following, that is say—

2. The said Thomas Shopman shall and will henceforth from the date hereof become and until this agreement shall be terminated as hereinafter mentioned continue, the assistant and manager of him the said Robert Blank in the aforesaid trade or business of a chemist and druggist, and shall give the whole of his time and attention to the said trade or business, and in the managing, conducting, and superintending and improving the same to the utmost of his power and ability, and also shall and will do and perform all such services, acts, matters and things, in connection therewith, as he, the said Robert Blank, shall from time to time order or direct, and shall not nor will divulge or make known any trusts, secrets, or accounts, or dealings of, or relating to the said trade or business of him, the said Robert Blank, and shall and will be just and faithful to him in all his business dealings and transactions whatsoever, and also shall and will give and render to the said Robert Blank, at all times when the same shall be required of him, a just and true account of the same, and also keep such and so many books of account as the said Robert Blank shall think necessary, wherein the said Thomas Shopman shall fairly write all monies received and paid, and all goods which shall be bought or received in or sold or delivered out upon credit or otherwise, and the rates and prices at which the same shall be bought or received in or sold or delivered out, and all matters, circumstances, and things necessary to manifest the state and condition of the said trade which said book or books of account shall always be kept in some convenient place on the said premises at aforesaid, where the said business shall be carried on, and be at all times open to the inspection of the said Robert Blank

3. The said Thomas Shopman also undertakes and agrees with the said Robert Blank that he shall not nor will commence business on his own account as a chemist or druggist, or become assistant or manager for any other person or persons in the same trade, within a circuit of one mile from the said place of business of the said Robert Blank, in aforesaid; and in the event of the said Thomas Shopman so commencing business on his own account or becoming assistant or manager to any other person or persons as aforesaid he shall and will pay to the said Robert Blank the sum of fifty pounds, such sum to be considered and be in the nature of and recoverable as liquidated damages.

4. The said Robert Blank shall and will weekly and every week so long as the said Thomas Shopman shall be in his service (the said Thomas Shopman fulfilling and keeping all and singular the agreements hereinbefore contained on his part) pay unto the said Thomas Shopman by weekly payments on each Saturday in every week the clear weekly wages of (the said Thomas Shopman to find himself with board and lodgings and all other necessaries) and also a commission of per cent. on all and every sum and sums of money which shall be taken and received in the said trade or business over and above pounds per week, such commission to be paid on such excess only and quarterly, the first quarterly payment thereof to be made on the day of next.

5. In case of the decease of either of the said parties hereto, or in case either of them shall be desirous to determine the agreement, it shall be lawful for him so to do upon giving to the other of them one calendar month's notice thereof in writing, and then and thenceforth this agreement and everything herein shall cease, determine, and be absolutely void, but without prejudice to any right of action, claim, or demand of or by either of the said parties for or by reason of any previous breach or nonperformance by the other of the said parties of any of the agreements herein contained.

As witness the hands of the said parties.

Witness, Signed Robert Blank.
.. Thomas Shopman.

Sir,—"Manchester" desires an equitable arrangement between himself and branch manager. Allow me to offer the following rules as a basis for same:—

1. Let a fixed salary be agreed upon in the first place.
2. Allow a percentage on the total profit made per quarter or annum, by way of encouragement, such a course being mutually beneficial.
3. Cultivate as friendly a feeling as possible between self and manager, and avoid that prying distrustful manner common to many masters.
4. Take due notice of any special efforts or abilities on the part of your manager, as this encourages him and promotes good feeling. Finally, once you have a good man try and keep him.

So much depends on class of business done, turnover, household and family arrangemeuts, that it is impossible to lay down rules applicable to every case; but the above points, duly noted, have been known to produce good results, and can be added to as circumstances necessitate.

Yours truly,
47 Montpelier Vale, Blackheath, Jas. A. Robertson.
April 17.

An Impostor.

Sir,—We think it only right to warn your readers against a person who called at our offices in Ryland Road, a week ago, and obtained some "Vinolia" preparations in the name of a London chemist with whom we had done business—viz., Mr. Cresswell Collen, Parade Pharmacy, Clapham Junction, S.W. The man brought an order for the goods in the usual way, with our customer's signature to it (forged). He was short and fair, about 35 or 40, and had the appearance of a porter.

Yours truly,
Ryland Road, London, N.W., Blondeau et Cie.
April 18.

The Photographic Business.

Sir,—During the past eighteen months I have done quite a nice little business in photography, due largely to the faith I have in The Chemist and Druggist recommendations. My stock is worth about 50*l.*, and my difficulties in starting a new branch have not been serious. Moreover, it has introduced me to a new class of customers, and upon the whole has proved a very good investment. I am now seeking to get a photographic club started, that is, I am endeavouring to get others to move in the matter while I keep in the background, but we are all new to this work. What is needed to start a club, and how are the clubs worked? I should be much obliged for any help.

Yours faithfully,
Hunts. (20/12).

Liquorice.

Sir,—In the recent prosecutions for selling adulterated liquorice, statements have been made by magistrates and

others showing the existence of considerable ignorance or misconception on the subject. The statement most calculated to do harm is that pure liquorice could not be used without producing alarming results. This assertion is ridiculous. We cannot go the length of saying that there is no liquorice produced the use of which would have the effects named, but we wish to point out that the pure brands of liquorice imported to this country, and well known to the trade, are not only not injurious but greatly beneficial, and absolutely free from injurious admixtures. Yours faithfully,

April 13. A Firm of Importers.

The Vogeler Compound.

Sir,—I notice in your last issue a reply from Mr Wm. E. Geddes to some remarks of mine on this subject in a recent issue.

I am aware the advertisement states that the preparation may be had from chemists, and I disclaim the remotest intention of misrepresenting the matter in any way whatever.

Let us look at the facts. The Vogeler Compound is only supplied to chemists upon their signing a binding agreement not to sell in any instance below the full prices, but the first thing they find is the makers actually competing against them by sending the compound to the public direct, post-free, —in other words, 3*d*. per bottle below the price at which any chemist who respects his agreement can supply it by post; and if he does not respect his agreement he is left without a profit.

It is very natural, I should say, for a person living in a neighbouring town or village to send by post to a chemist in his own district for a bottle of Vogeler Compound instead of sending to headquarters, but in such a case the order cannot be supplied.

Mr. Geddes is understood to be desirous of promoting friendly arrangements with chemists, so as to get them interested in the article. This may be a good way to do so, but such is not my opinion. I think this course is without precedent in the trade.

Mr. Geddes has been for some time talking loudly about "making it sell," but he does not yet appear to have done much in this direction. Yours, &c.

April 18. A Provincial Chemist. (21/6.)

"Selling Chloroform Unlabelled."

With reference to a paragraph under this heading in our Legal Reports of last week, "Fortiter" writes that the charge against Dr. Le Gentil and Mr. R. Rae was not for selling a bottle of chloroform "unlabelled" to a boy ten years of age, but for selling it to a boy of such tender years not "distinctly" labelled. The bottle was, we understand, correctly labelled

The Valentine Postcard Competition.

We have received critical votes in the Valentine Competition from Messrs. S. Sawdu and Q. Strong, both of Sandy Bay, Jamaica. The former scores three, and the latter only one, of the winning seven, so that neither would have come in for a prize.

MISCELLANEOUS INQUIRIES.

The Editor replies to queries of general interest, in the order in which they are received. Replies are inserted according to the space available. Postal answers cannot be supplied.

Back numbers, containing formulæ, educational or other specific information, can be obtained from the Publisher.

8/32. *D. Williams.*—(1) **Soiled Corks** should be washed thoroughly in warm water, and, if possible, brushed Then put them in a riddle, or other suitable receptacle, and expose while wet to the fumes of burning sulphur. Afterwards wash with cold water. (2) A formula has been given within the past fortnight.

8/64. *Emperor.*—(1) See reply to "Alpha" recently. (2) No objection at all; indeed, it is often used.

14/17. *Phosphate.*—**Powdered Ammoniacum.**—The tendency of this gum-resin to agglomerate when powdered is prevented by the addition of calcined magnesia. This fact was communicated to The Chemist and Druggist, exactly thirty years ago, by Mr. B. S. Proctor. Reference was made to asafœtida, galbanum, and the like, and Mr. Proctor stated that the samples he had experimented with required from 4 to 10 per cent. of magnesia to produce the requisite degree of brittleness. The gums may be softened by water-bath heat, and the magnesia stirred in; when sufficiently mixed, and allowed to cool, they may be readily powdered.

18/15. *Detalphus.*—**Sulphated Castor Oil** or **Turkey Red-oil** is a mordant used by dyers. It is made by adding castor oil gradually to concentrated sulphuric acid, care being taken to avoid any rise in temperature. The liquid is then neutralised with soda-ash, and ammonia is added until a sample dissolves completely in water. The whole is then allowed to stand for about twelve hours, to allow sodium sulphate to crystallise out, and the clear oil decanted. It is a commercial article under the name "Turkey Red-oil."

8/65. *W. W.*—**White Lip-salve.**—Your samples differ in melting-point, the smaller stick being 54° C., and the larger 49° C. They may be made as follows:—

	Harder	Softer
White vaseline	ʒiv.	ʒv.
Hard paraffin	ʒiv.	ʒiv.

Melt together, and cool very slowly, stirring occasionally until of a creamy consistence; then perfume with vanillin, and pour into paper moulds of the size required.

9/28. *Windsor.*—**Wash for Roses.**—The article which you send appears to be of the following composition:—

	Oz.
Wood tar	1
Solution of potash	1
Soft soap	2
Mix thoroughly in a mortar, then add gradually—	
Methylated spirit to	1 pint

Perfume with oil of verbena.

10/17. *Piper Nig.*—If you are doubtful about the correctness of something which another journal has published, why trouble us about it? We have other fish to fry.

10/11. *X. Y. Z.*—There is no book on plaster-making. The subject is treated more fully in the "Art of Pharmacy" than in any other book we know of. So far as the operations on the large scale are concerned, these are part of a business which must be learnt like every other craft.

8/49. *Ignoram.*—Every hospital has its **Mistura Quininæ**, and we expect that it is a hospital-prescription which you have got. Generally they are 1 or 2 grains of quinine sulphate and 5 minims of dilute sulphuric acid to 1 oz. of water.

10/57. *Waun-fain.*—By **Ext. Picis Liq.** we expect that liq. carbonis detergens, or its second cousin, liq. picis carbonis, B.P.C., is meant.

10/29. *Cobalt.*—It is possible that the carboy has become corroded through long contact with the alkaline liquid. This often happens with carboys. If that is so, you can test by diligent rinsing with a mixture of sand and spirit of salt, and if it does not come off you may satisfy yourself that there is no remedy for the dimness.

266/9. *Pax* (Paris).—We have carefully considered your difficulty in regard to the nitrous vapours. The stability of nitric oxide and the absence of any specific use for it appear to us to be difficulties which require careful investigation on the spot, especially as to the probability of utilisation on the spot and in your existing manufactures. This

is a matter in which you may have an opportunity of consulting some chemical engineer.

44/93. *H. J.* (Birmingham).—**Bird-lime** which has become too thick to spread may be thinned with ether or turpentine. These are really the only commonly available solvents of the stuff.

12/48. *Simpleton.*—**Stone Ginger-beer.**—See *C. & D.*, October 8, 1892, page 565.

12/13. *S. T. H.*—"Silicate" used in soap-making is sodium silicate (not the solution). Try any of the chemical manufacturers who advertise in the *C. & D.*

12/36. *Nemo.*—A little ammonium bromide may take the place of morphine in your cough-mixture. Do not allow the dose to exceed 5 grains.

13/27. *Beccabunga.*—We do not know of a map which represents "the affinities of plants."

14/5. *Carbolic.*—Carbolic acid is best used alone or in the form of powder made with kieselguhr.

14/19. *Ricinus.*—What petroleum-test do you refer to? We know of none in the Pharmacopœia.

14/68. *Subscriber.*—(1) You cannot possibly make Berlin black except on a large scale and with special apparatus. Do you wish to do that? (2) Test your liq. ammon. acet. for lead. We suspect that that may be the cause of the milkiness.

14/4. *Scotus.*—Bread steeped in a solution of strychnine and partly dried is the best thing for poisoning crows.

15/17. *Jean Blanc.*—(1) **Ung. Stramonii, U.S.P.:—**

	Parts.
Extract of stramonium	10
Water	5
Benzoinated lard	85

Mix the extract with the water, then add the lard.

The U.S.P. extract is made from the seeds. (2) Horafes, for hardening steel, we do not know. Who does?

15/7. *F. J. Y.*—**Tincture of Peruvian Balsam.**—Shake up 1 oz. of the balsam with 10 oz. of rectified spirit for some time. Filter in a day.

18/59. *Weed-killer.*—You must judge for yourself.

19/16. *A. D.*—Sulphuretted hydrogen is the best reagent for the detection of lead in water.

19/26. *Lignum.*—(1) The **Gripe-mixture**, page 883 *C. & D.*, December 17, 1892, is suitable for teething (2) **Water-softener.**—This volume, page 95. (3) The treatise is in the Diary.

19/38. *J. W.*—The still is described in our issue of March 18, page 381.

16/37. *Nemo.*—**Essence of Vanilla.**—*C. & D.*, February 3, 1892, page 250.

16 54. *Subscriber.*—We gave a formula for **Black Ink** a week or two ago. See also page 400, March 18.

19/47. *Quærens.*—(1) **Quinine and Iron Tonic.**—*C. & D.*, January 30, 1892, page 146. (2) **White Liniment.**—This volume, page 491.

15/2. *T. P.*—You forget that seidlitz powders are now official, and that it is the B.P. article which must be supplied when asked for.

16/38. *K.*—After cutting and stamping **Lozenges**, lay them on a flat tray and put them in a dry room, not exceeding in temperature 80° F., for a day or so; then dry in an oven at a temperature of 150° F., or thereabouts. An ordinary kitchen-oven will do for the latter purpose if you take care not to heat it too strongly. See the note on page 275, *C. & D.*, August 20, 1892.

17/20. *Dispensary.*—**Hop Ale.**—A formula for this was given in our issue of July 16, 1892, page 97. Some of the temperance ales in the market are made by checking the fermentation before it goes too far, and then light-charging the ale with carbonic-acid gas. See also the formula for Kop's Ale in *C. & D.*, December 10, 1892, page 837.

17/32. *Aloin.*—The formula for chillie paste was published in the *C. & D.*, February 13, 1892, page 249.

17/33. *Rumex.*—We think the quantity of spirit which you propose to use is too little. The rennet would be just as well without it.

16/35. *Lozimus.*—How can anybody possibly give you the "correct formula" of a secret preparation?

18/40. *Wanted.*—We have never heard of the rhyme.

17/61. *Veterinarian.*—We cannot concoct a formula on the slender basis which you give us. You have kept the name of the article to yourself. We object to that.

17/47. *M. Hill.*—**Cheap Shaving-paste.**—*C. & D.*, November 12, 1892, page 726.

17/57. *Worm-ball.*—"Powdered glass" is the translation of the item.

18/38. *W. H. K.*—(1) Sampson Low, Marston & Co., Fetter Lane, London, E.C., supply the United States Pharmacopœia. (2) **Tinct. Cactina** is a proprietary preparation (American). Any wholesale house will supply you with it. (3) **Seltzogene-powders.**—See page 30 of the current volume. (4) We suppose you mean by "Paris sulph." **Paris Green**, or arseniate of copper. You can get it from any of the chemical manufacturers or agents who advertise in this journal. (5) If you address any varnish-manufacturer you will doubtless get what you want in that line.

17/74. *Mortar and Pestle.*—The liniment is white oils. See reply to "Quærens."

18/50. *B. P.*—**Baking-powder.**—Each pound of tartaric acid used requires 18 oz. of bicarbonate of soda. These proportions will suffice for your purpose.

19/61. *Gateshead Subscriber.*—**Ginger-beer Powder.**—*C. & D.*, July 18, 1891, page 98.

*** *Pressure on our space this week has excluded much Correspondence matter.*

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Tooth Powder	3/6 ,,
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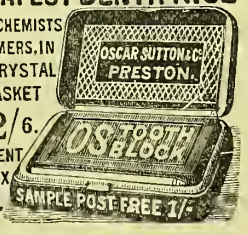
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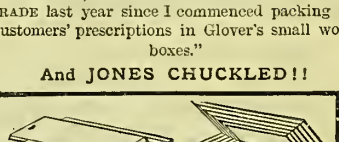
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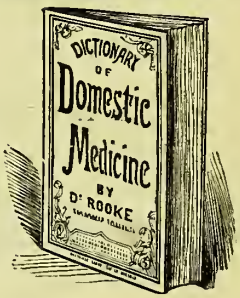
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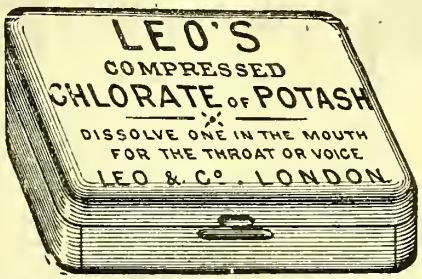
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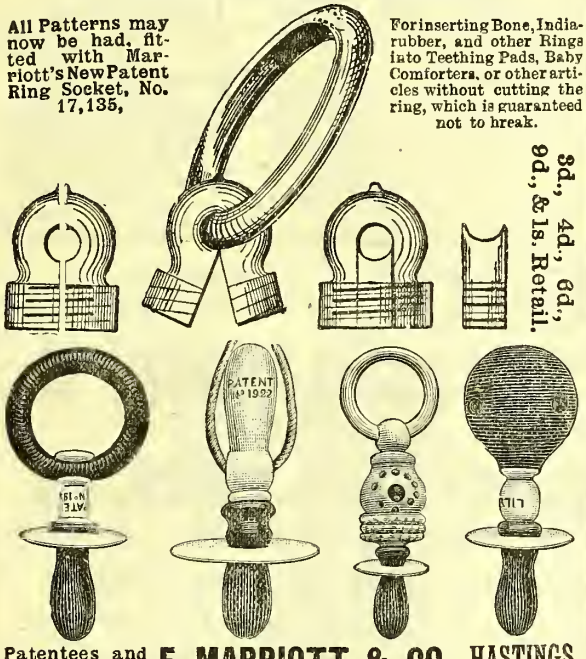
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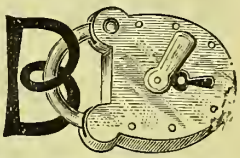
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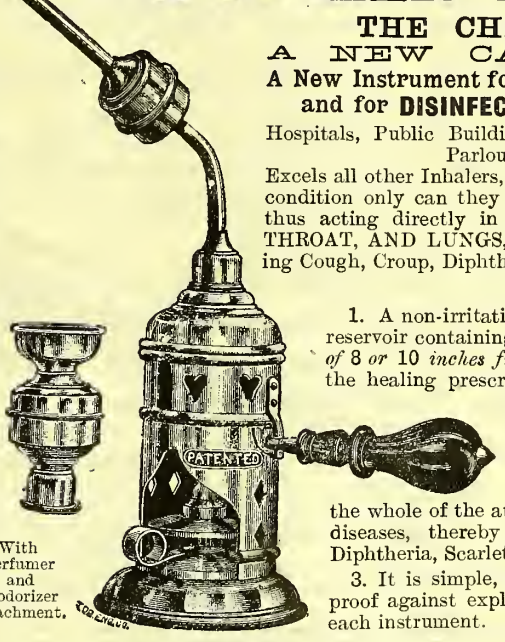
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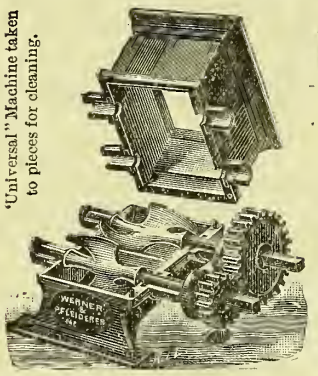
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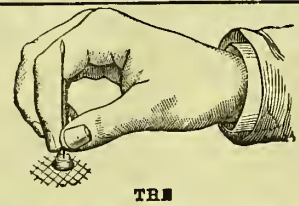
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I WILL pay **£5** to the first person, whether Chemist, Assistant, or one of the Public, who will afford me such information (which I engage to treat as absolutely confidential) as shall lead to the conviction of anyone who improperly substitutes other Powder for mine. I call attention to the case below.

As a matter of fact, I took this course last year, and in the end the reward and heavy costs came out of the substituter's pocket; and I have every reason to believe that the course I adopted was highly satisfactory to the neighbouring Chemists, as well as to the Public and myself.

THOMAS KEATING,
12, Bride Lane, London.

A "STORES" CAUGHT!

Mr. JUSTICE STIRLING.—October 30, 1891.

KEATING *v.* KIBBLE.

THE Defendants are Proprietors of large Stores at Deptford, and when asked for "Keating's Powder," sold by their shopmen an article not made by me. The Defendants denied that this was done with their knowledge, and this may be conceded, but it cost them over £40, although in this instance I pressed my Solicitors to be as considerate to them as possible. The Court ordered the Defendants to pay the whole costs of the action, and issued an injunction restraining them from offering for sale any preparation other than that prepared by Thomas Keating under the name of "Keating's Insect Powder."

HEAVY DAMAGES.

Chancery Division—Mr. JUSTICE NORTH—October 26, 1886.

KEATING *v.* POLL.

IT WAS ORDERED—

That the Defendant be perpetually restrained from stating or causing to be stated that Keating's Persian Insect Destroying Powder contains **any substance poisonous to animals or human beings,** or from making any statement to the effect that such Powder is dangerous to animals or human beings.

IT WAS FURTHER ORDERED—

That the Defendant, William Sheppard Poll, do pay to the Plaintiffs their costs of this action.

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For Destroying Weeds, Moss, &c., on Garden Walks, Carriage Drives, Roads, Meadows, &c.

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2. Our Retail Prices are such as will induce a ready sale, and we make no charge for 1 and 2 gallon tins.
3. We pay carriage on twelve gallons in 1 and 2 gallon tins, and on 10 gallons in drums and upwards, to any Station or Port in Great Britain.
4. Drums and casks are charged at cost price. Full prices allowed when returned.

Trade and Export Terms on application. The most Liberal Terms to the Trade.

RETAIL PRICES.—In 1 and 2 gallon tins, 2/- per gallon (tins included); in 5-gallon drums, 1/6 per gallon; 10, 15, and 20 gallons, 1/4 per gallon; in 40-gallon casks, 1/3 per gallon.

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For Kicks, Cuts, Bruises, Sore Withers, Swellings Strains of Ligaments and Tendons, Saddle Galls, &c. It rapidly relieves Straining and Paining after Calving and Lambing, and is the remedy for Swollen Udders and Sore Teats.

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THE CASEODYNE,

Used as Laudanum for parturition in Mares, Cows, and Ewes, when there is great pain exhibited with feverish symptoms. Highly beneficial for Inflammatory Colic or Enteritis, and for severe forms of Diarrhœa.

Price 3s. 6d. per Large Bottle.



For Fret, Colic, or Gripes in Horses, Hoven or Blown Sheep, and General Debility in Stock; of exceptional value for Colds, Chills, Scour, Diarrhœa, and weakly Lambs and Calves.

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For Colds, Indigestion, Costiveness, Yellows, Surfeits, Loss of Cud, Pleurisy, Hide-bound, Red Water, &c. Admirably adapted for cleansing and checking feverish symptoms in Cows and Ewes after a bad time of Calving or Lambing.

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DRIFFIELD OILS,

Commonly called "Day's Oils," "Day's Black Oils."

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For Saddle & Stake Wounds & Cracked Heels.
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For Anointing in bad Lambing and Calving.

Price 2s. 6d. and 6s. per Bottle.



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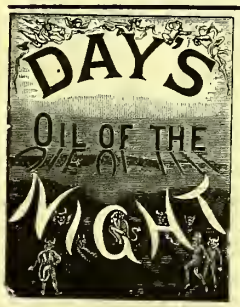
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Cleanses and Cools the Blood and System.
For Red Water, Indigestion, and Yellows.
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Price 12s. per dozen Packets.

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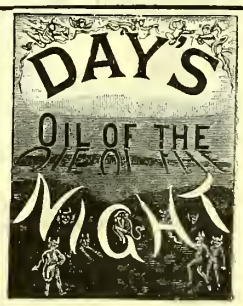
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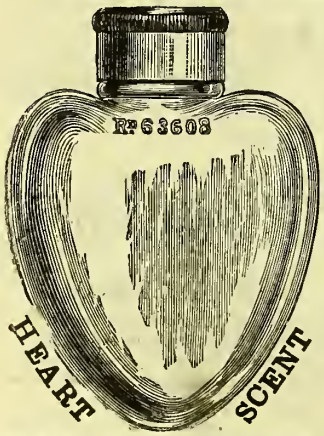
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THE OVAL, CAMBRIDGE HEATH, LONDON, E.

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Is most admirably adapted for pocket use, combining great beauty of design with the maximum of convenience.

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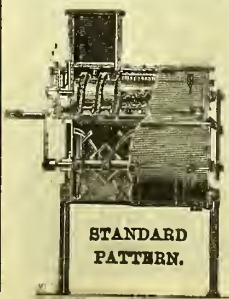
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The New Shape with rounded edges, or the ordinary shape, either plain or graduated.

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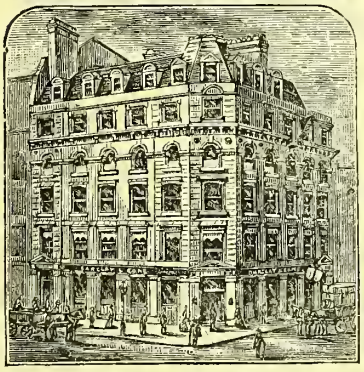
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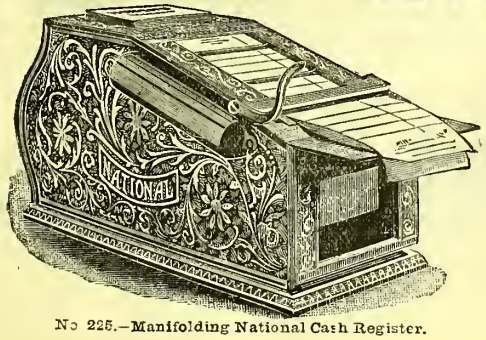
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